



| Lyondell Product | CAS Number | Chemical Name | Molecular Weight (g/mol) | Maximum Incremental Reactivity (SAPRC07 MIR, g ozone/g) | Federal VOC exempt status | CARB LVP-VOC exempt in consumer products | Evaporation Rate (n-BuAc=100) | Solubility in Water @ 20°C/68°F (%) | Density @ 20°C/68°F (lb/gal) | Density @ 20°C/68°F (Kg/L) | Flash Point °C | Flash Point °F | Boiling Point @ 760 mmHg (°C) | Boiling Point @ 760 mmHg (°F) | Specific Gravity (20/20°C) | Vapor Pressure @ 20°C/68°F (mmHg) | Viscosity (cP or mPa·s @ 25°C) | Refractive Index @ 25°C/77°F | Surface Tension (dynes/cm @ 25°C/77°F) |
|---------------------------|------------|--|--------------------------|---|---------------------------|--|-------------------------------|-------------------------------------|------------------------------|----------------------------|----------------|----------------|-------------------------------|-------------------------------|----------------------------|-----------------------------------|--------------------------------|------------------------------|--|
| Glycol Ether PM | 107-98-2 | Propylene glycol methyl ether | 90.1 | 2.34 | VOC | no | 70 | 100 | 7.6 | 0.917 | 32 (a) | 89 (a) | 120 | 248 | 0.923 | 8.1 | 2.0 | 1.404 | 27 |
| Glycol Ether DPM | 34590-94-8 | Dipropylene glycol methyl ether | 148.2 | 1.88 | VOC | no | 2 | 100 | 7.9 | 0.947 | 75 (a) | 167 (a) | 180 | 356 | 0.951 | 0.17 | 4.0 | 1.422 | 28 |
| Glycol Ether TPM | 25498-49-1 | Tripropylene glycol methyl ether | 206.3 | 1.81 | VOC | yes | 0.2 | 100 | 8.0 | 0.962 | 121 (b) | 250 (b) | 236 | 457 | 0.962 | 0.03 | 6.0 | 1.428 | 29 |
| Glycol Ether PE | 52125-53-8 | Propylene glycol ethyl ether | 104.1 | 3.19 | VOC | no | 44 | 100 | 7.5 | 0.899 | 35 (c) | 95 (c) | 132 | 270 | 0.898 | 10 | 1.8 | 1.405 | 30 |
| Glycol Ether PNP | 1569-01-3 | Propylene glycol normal propyl ether | 118.2 | 2.56 | VOC | no | 22 | 100 | 7.4 | 0.884 | 48 (a) | 118 (a) | 150 | 302 | 0.887 | 1.7 | 2.3 | 1.410 | 27 |
| Glycol Ether DPNP | 29911-27-1 | Dipropylene glycol normal propyl ether | 176.3 | 1.69 | VOC | no | 1.3 | 18 | 7.7 | 0.923 | 88 (c) | 190 (c) | 212 | 414 | 0.922 | 0.05 | 4.4 | 1.422 | 26 |
| Glycol Ether PNB | 5131-66-8 | Propylene glycol normal butyl ether | 132.2 | 2.59 | VOC | no | 7 | 6 | 7.3 | 0.875 | 62 (d) | 144 (d) | 170 | 338 | 0.880 | 0.62 | 3.5 | 1.416 | 26 |
| Glycol Ether DPNB | 29911-28-2 | Dipropylene glycol normal butyl ether | 190.3 | 1.72 | VOC | yes | 1 | 5 | 7.6 | 0.911 | 100 (c) | 212 (c) | 229 | 444 | 0.912 | 0.02 | 4.8 | 1.425 | 29 |
| Glycol Ether TPNB | 55934-93-5 | Tripropylene glycol normal butyl ether | 248.4 | 0.85 | VOC | yes | <1 | 3 | 7.8 | 0.935 | 124 (b) | 255 (b) | 274 | 527 | 0.934 | <0.01 | 8.0 | 1.433 | 30 |
| Glycol Ether DM | 111-77-3 | Diethylene glycol methyl ether | 120.2 | 2.55 | VOC | no | 2 | 100 | 8.5 | 1.020 | 84 (a) | 183 (a) | 194 | 380 | 1.023 | 0.2 | 3.9 | 1.427 | 35 |
| Glycol Ether DE | 111-90-0 | Diethylene glycol ethyl ether | 134.2 | 3.13 | VOC | no | 2 | 100 | 8.2 | 0.989 | 91 (a) | 196 (a) | 198 | 388 | 0.990 | 0.12 | 4.5 | 1.426 | 32 |
| Glycol Ether EB | 111-76-2 | Ethylene glycol butyl ether | 118.2 | 2.80 | VOC | no | 6 | 100 | 7.5 | 0.900 | 72 (a) | 162 (a) | 169 | 336 | 0.902 | 0.6 | 6.4 | 1.419 | 27 |
| Glycol Ether DB | 112-34-5 | Diethylene glycol butyl ether | 162.2 | 2.27 | VOC | yes | 0.3 | 100 | 7.9 | 0.951 | 106 (a) | 223 (a) | 230 | 446 | 0.955 | 0.06 | 4.7 | 1.432 | 30 |
| Glycol Ether TE | 112-50-5 | Triethylene glycol ethyl ether | 178.2 | 2.33 | VOC | yes | <1 | 100 | 8.5 | 1.022 | 135 (a) | 275 (a) | 256 | 493 | 1.023 | <0.01 | 6.7 | 1.437 | 34 |
| Glycol Ether PMA | 108-65-6 | Propylene glycol methyl ether acetate | 132.2 | 1.63 | VOC | no | 34 | 18 | 8.0 | 0.959 | 47 (a) | 116 (a) | 140 | 284 | 0.969 | 2.8 | 1.1 | 1.400 | 27 |
| Glycol Ether EBA | 112-07-2 | Ethylene glycol butyl ether acetate | 160.2 | 1.52 | VOC | no | 3 | 1 | 7.8 | 0.939 | 74 (a) | 165 (a) | 190 | 374 | 0.941 | 0.02 | 1.8 | 1.414 | 30 |
| Glycol Ether DBA | 124-17-4 | Diethylene glycol butyl ether acetate | 204.3 | 1.29 | VOC | yes | 0.2 | 6 | 8.2 | 0.978 | 116 (b) | 241 (b) | 242 | 468 | 0.980 | 0.01 | 3.2 | 1.424 | 30 |
| Ethanol, 200 Proof | 64-17-5 | Ethanol | 46.1 | 1.45 | VOC | no | 170 | 100 | 6.6 | 0.788 | 9 (c) | 48 (c) | 78 | 173 | 0.791 | 43 | 1.1 | 1.360 | 22 |
| NMP | 872-50-4 | N-methyl-2-pyrrolidone | 99.1 | 2.28 | VOC | no | 0.03 | 100 | 8.6 | 1.030 | 90 (c) | 194 (c) | 202 | 396 | 1.027 | 0.29 | 1.7 | 1.468 | 40 |
| TBAC™ Solvent | 540-88-5 | Tertiary butyl acetate | 116.2 | 0.17 | exempt | no | 280 | 0.3 | 7.2 | 0.863 | 4.4 (a) | 40 (a) | 98 | 208 | 0.867 | 31 | <1 | 1.444 | 22 |
| Tebol 99 *High Purity TBA | 75-65-0 | Tertiary butyl alcohol | 74.0 | 0.39 | VOC | no | 95 | 100 | 6.5 | 0.779 | 11 (c) | 52 (c) | 82 | 180 | 0.80 | 31 | 3.3 | 1.38 | 20 |
| THF | 109-99-9 | Tetrahydrofuran | 72.0 | 4.11 | VOC | no | 8 | 100 | 7.4 | 0.888 | -14 (a) | 6.8 (a) | 66 | 151 | 0.886 | 129 | 0.5 | 1.407 | 26 |

*Available in electronic grade

- (a) Tag Closed Cup
- (b) Pensky-Martens
- (c) Seta
- (d) Abel Closed Cup

bold if estimated
others from 8/31/2007 SAPRC 2007 Carter spreadsheet

For more information in the U.S. or Canada, call 1-888-777-0232.
For Europe, the Middle East, Africa or Asia, call +31 10 275 5500.
For South America, call +55 11 5184-8400.
[You may also visit our website www.lyondellbasell.com.](http://www.lyondellbasell.com)

TBAC and TEBOL are trademarks of LyondellBasell.

The information in this brochure is believed to be accurate as of the date of publication. It is the sole responsibility of the customer to determine whether the product is appropriate and suitable for the customer's specific use. Specific end uses may require approval by appropriate regulatory agencies. LyondellBasell makes no warranties, express or implied, regarding the product or information contained herein. The applicable Material Safety Data Sheet should be reviewed by customer before handling the LyondellBasell product. LyondellBasell disclaims any liability for infringement of any patent by reason of customer's use of any LyondellBasell products in combination with other materials or in any process.