

Diglycolic acid, 2,6-dimethoxyphenyl isobutyl ester

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|----------------------|---|
| Inchi: | InChI=1S/C16H22O7/c1-11(2)8-22-14(17)9-21-10-15(18)23-16-12(19-3)6-5-7-13(16)20-4 |
| InchiKey: | QFOSOBYGBXTBHA-UHFFFAOYSA-N |
| Formula: | C16H22O7 |
| SMILES: | COc1cccc(OC)c1OC(=O)COCC(=O)OCC(C)C |
| Mol. weight [g/mol]: | 326.34 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -608.29 | kJ/mol | Joback Method |
| hf | -1051.52 | kJ/mol | Joback Method |
| hfus | 36.07 | kJ/mol | Joback Method |
| hvap | 79.96 | kJ/mol | Joback Method |
| log10ws | -2.24 | | Crippen Method |
| logp | 1.825 | | Crippen Method |
| mvol | 245.030 | ml/mol | McGowan Method |
| pc | 1730.34 | kPa | Joback Method |
| rinpol | 2801.00 | | NIST Webbook |
| rinpol | 2801.00 | | NIST Webbook |
| tb | 821.52 | K | Joback Method |
| tc | 1025.55 | K | Joback Method |
| tf | 517.55 | K | Joback Method |
| vc | 0.919 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 731.51 | J/molxK | 821.52 | Joback Method |
| cpg | 745.47 | J/molxK | 855.52 | Joback Method |
| cpg | 758.24 | J/molxK | 889.53 | Joback Method |
| cpg | 769.81 | J/molxK | 923.53 | Joback Method |
| cpg | 780.14 | J/molxK | 957.54 | Joback Method |
| cpg | 789.20 | J/molxK | 991.54 | Joback Method |
| cpg | 796.96 | J/molxK | 1025.55 | Joback Method |
| dvisc | 0.0002979 | Paxs | 517.55 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0001811 | Paxs | 568.21 | Joback Method |
| dvisc | 0.0001195 | Paxs | 618.87 | Joback Method |
| dvisc | 0.0000839 | Paxs | 669.53 | Joback Method |
| dvisc | 0.0000619 | Paxs | 720.20 | Joback Method |
| dvisc | 0.0000476 | Paxs | 770.86 | Joback Method |
| dvisc | 0.0000378 | Paxs | 821.52 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U381904&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

Legend

| | |
|-----------------|---|
| cpg: | Ideal gas heat capacity |
| dvisc: | Dynamic viscosity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hvap: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| rinpol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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<https://www.chemeo.com/cid/89-745-7/Diglycolic-acid-2-6-dimethoxyphenyl-isobutyl-ester.pdf>

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