

Diglycolic acid, octyl phenethyl ester

| | |
|-----------------------------|---|
| Inchi: | InChI=1S/C20H30O5/c1-2-3-4-5-6-10-14-24-19(21)16-23-17-20(22)25-15-13-18-11-8-7-9 |
| InchiKey: | NVPMXCQYKLEGAZ-UHFFFAOYSA-N |
| Formula: | C20H30O5 |
| SMILES: | CCCCCCCCOC(=O)COCC(=O)OCCc1ccccc1 |
| Mol. weight [g/mol]: | 350.45 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -342.91 | kJ/mol | Joback Method |
| hf | -841.42 | kJ/mol | Joback Method |
| hfus | 48.36 | kJ/mol | Joback Method |
| hvap | 83.11 | kJ/mol | Joback Method |
| log10ws | -4.11 | | Crippen Method |
| logp | 3.693 | | Crippen Method |
| mvol | 289.650 | ml/mol | McGowan Method |
| pc | 1339.80 | kPa | Joback Method |
| rinpol | 3274.00 | | NIST Webbook |
| rinpol | 3274.00 | | NIST Webbook |
| tb | 858.68 | K | Joback Method |
| tc | 1059.32 | K | Joback Method |
| tf | 508.13 | K | Joback Method |
| vc | 1.113 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 907.79 | J/molxK | 858.68 | Joback Method |
| cpg | 923.53 | J/molxK | 892.12 | Joback Method |
| cpg | 938.06 | J/molxK | 925.56 | Joback Method |
| cpg | 951.40 | J/molxK | 959.00 | Joback Method |
| cpg | 963.57 | J/molxK | 992.44 | Joback Method |
| cpg | 974.58 | J/molxK | 1025.88 | Joback Method |
| cpg | 984.46 | J/molxK | 1059.32 | Joback Method |
| dvisc | 0.0004837 | Paxs | 508.13 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0002586 | Paxs | 566.55 | Joback Method |
| dvisc | 0.0001554 | Paxs | 624.98 | Joback Method |
| dvisc | 0.0001019 | Paxs | 683.40 | Joback Method |
| dvisc | 0.0000714 | Paxs | 741.83 | Joback Method |
| dvisc | 0.0000527 | Paxs | 800.25 | Joback Method |
| dvisc | 0.0000405 | Paxs | 858.68 | 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=U382163&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |

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 |

Latest version available from:

<https://www.chemeo.com/cid/87-702-6/Diglycolic-acid-octyl-phenethyl-ester.pdf>

Generated by Cheméo on 2024-04-26 06:56:30.032733081 +0000 UTC m=+16403838.953310396.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.