

Glutaric acid, 2-ethoxyethyl heptadecyl ester

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| Inchi: | InChI=1S/C26H50O5/c1-3-5-6-7-8-9-10-11-12-13-14-15-16-17-18-22-30-25(27)20-19-21 |
| InchiKey: | CLRVOYBKTMKDQE-UHFFFAOYSA-N |
| Formula: | C26H50O5 |
| SMILES: | CCCCCCCCCCCCCCCCOC(=O)CCCC(=O)OCCOCC |
| Mol. weight [g/mol]: | 442.67 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -404.80 | kJ/mol | Joback Method |
| hf | -1201.79 | kJ/mol | Joback Method |
| hfus | 69.86 | kJ/mol | Joback Method |
| hvap | 94.19 | kJ/mol | Joback Method |
| log10ws | -7.52 | | Crippen Method |
| logp | 7.151 | | Crippen Method |
| mcvol | 397.950 | ml/mol | McGowan Method |
| pc | 755.15 | kPa | Joback Method |
| rinpola | 3112.00 | | NIST Webbook |
| tb | 969.28 | K | Joback Method |
| tc | 1198.00 | K | Joback Method |
| tf | 549.33 | K | Joback Method |
| vc | 1.558 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1377.16 | J/molxK | 969.28 | Joback Method |
| cpg | 1398.15 | J/molxK | 1007.40 | Joback Method |
| cpg | 1417.20 | J/molxK | 1045.52 | Joback Method |
| cpg | 1434.34 | J/molxK | 1083.64 | Joback Method |
| cpg | 1449.61 | J/molxK | 1121.76 | Joback Method |
| cpg | 1463.04 | J/molxK | 1159.88 | Joback Method |
| cpg | 1474.68 | J/molxK | 1198.00 | Joback Method |
| dvisc | 0.0002751 | Paxs | 549.33 | Joback Method |
| dvisc | 0.0001307 | Paxs | 619.32 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0000722 | Paxs | 689.31 | Joback Method |
| dvisc | 0.0000445 | Paxs | 759.31 | Joback Method |
| dvisc | 0.0000298 | Paxs | 829.30 | Joback Method |
| dvisc | 0.0000212 | Paxs | 899.29 | Joback Method |
| dvisc | 0.0000159 | Paxs | 969.28 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U359633&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |

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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