

Glutaric acid, monoamide, N-butyl-N-phenyl-, octadecyl ester

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|----------------------|---|
| Inchi: | InChI=1S/C33H57NO3/c1-3-5-7-8-9-10-11-12-13-14-15-16-17-18-19-23-30-37-33(36)28 |
| InchiKey: | GHUUCTIKRACRDB-UHFFFAOYSA-N |
| Formula: | C33H57NO3 |
| SMILES: | CCCCCCCCCCCCCCCCCOC(=O)CCCC(=O)N(CCCC)c1ccccc1 |
| Mol. weight [g/mol]: | 515.81 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 87.33 | kJ/mol | Joback Method |
| hf | -777.77 | kJ/mol | Joback Method |
| hfus | 82.67 | kJ/mol | Joback Method |
| hvap | 109.27 | kJ/mol | Joback Method |
| log10ws | -10.48 | | Crippen Method |
| logp | 9.795 | | Crippen Method |
| mcvol | 471.060 | ml/mol | McGowan Method |
| pc | 641.57 | kPa | Joback Method |
| rinpola | 3309.00 | | NIST Webbook |
| rinpola | 3309.00 | | NIST Webbook |
| tb | 1123.72 | K | Joback Method |
| tc | 1412.30 | K | Joback Method |
| tf | 642.65 | K | Joback Method |
| vc | 1.823 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1708.47 | J/molxK | 1123.72 | Joback Method |
| cpg | 1731.43 | J/molxK | 1171.82 | Joback Method |
| cpg | 1752.26 | J/molxK | 1219.91 | Joback Method |
| cpg | 1771.20 | J/molxK | 1268.01 | Joback Method |
| cpg | 1788.51 | J/molxK | 1316.11 | Joback Method |
| cpg | 1804.44 | J/molxK | 1364.21 | Joback Method |
| cpg | 1819.22 | J/molxK | 1412.30 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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=U360185&Units=SI |

Legend

| | |
|-----------------|---|
| cpg: | Ideal gas heat capacity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hvp: | 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 |
| rinp: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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