

Glutaric acid, monoamide, N-(1-phenylethyl)-, tridecyl ester

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| Inchi: | InChI=1S/C26H43NO3/c1-3-4-5-6-7-8-9-10-11-12-16-22-30-26(29)21-17-20-25(28)27-23 |
| InchiKey: | JXOAJSHHOYKVQS-UHFFFAOYSA-N |
| Formula: | C26H43NO3 |
| SMILES: | CCCCCCCCCCCCOC(=O)CCCC(=O)NC(C)c1ccccc1 |
| Mol. weight [g/mol]: | 417.62 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 4.56 | kJ/mol | Joback Method |
| hf | -652.63 | kJ/mol | Joback Method |
| hfus | 63.10 | kJ/mol | Joback Method |
| hvap | 97.70 | kJ/mol | Joback Method |
| log10ws | -8.09 | | Crippen Method |
| logp | 6.888 | | Crippen Method |
| mvol | 372.430 | ml/mol | McGowan Method |
| pc | 945.00 | kPa | Joback Method |
| rinpol | 3236.00 | | NIST Webbook |
| tb | 1000.85 | K | Joback Method |
| tc | 1226.13 | K | Joback Method |
| tf | 568.95 | K | Joback Method |
| vc | 1.442 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1276.55 | J/mol×K | 1000.85 | Joback Method |
| cpg | 1294.16 | J/mol×K | 1038.40 | Joback Method |
| cpg | 1310.32 | J/mol×K | 1075.94 | Joback Method |
| cpg | 1325.12 | J/mol×K | 1113.49 | Joback Method |
| cpg | 1338.65 | J/mol×K | 1151.04 | Joback Method |
| cpg | 1350.97 | J/mol×K | 1188.58 | Joback Method |
| cpg | 1362.18 | J/mol×K | 1226.13 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U360162&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |
| 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 |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| h vap: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| m cvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| r inpol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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