

Glutaric acid, monoamide, N-(2-octyl)-, nonyl ester

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|----------------------|--|
| Inchi: | InChI=1S/C22H43NO3/c1-4-6-8-10-11-12-14-19-26-22(25)18-15-17-21(24)23-20(3)16-13 |
| InchiKey: | BFKYAHGGWFBKEI-UHFFFAOYSA-N |
| Formula: | C22H43NO3 |
| SMILES: | CCCCCCCCCOC(=O)CCCC(=O)NC(C)CCCCC |
| Mol. weight [g/mol]: | 369.58 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -141.53 | kJ/mol | Joback Method |
| hf | -806.60 | kJ/mol | Joback Method |
| hfus | 58.70 | kJ/mol | Joback Method |
| hvap | 86.52 | kJ/mol | Joback Method |
| log10ws | -6.97 | | Crippen Method |
| logp | 5.926 | | Crippen Method |
| mcvol | 339.830 | ml/mol | McGowan Method |
| pc | 976.56 | kPa | Joback Method |
| rinqol | 3064.00 | | NIST Webbook |
| tb | 882.65 | K | Joback Method |
| tc | 1080.61 | K | Joback Method |
| tf | 497.45 | K | Joback Method |
| vc | 1.327 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1126.11 | J/molxK | 882.65 | Joback Method |
| cpg | 1145.13 | J/molxK | 915.64 | Joback Method |
| cpg | 1162.92 | J/molxK | 948.64 | Joback Method |
| cpg | 1179.54 | J/molxK | 981.63 | Joback Method |
| cpg | 1195.02 | J/molxK | 1014.62 | Joback Method |
| cpg | 1209.40 | J/molxK | 1047.62 | Joback Method |
| cpg | 1222.71 | J/molxK | 1080.61 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U360857&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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