# Glutaric acid, monoamide, N-(1-adamantyl)-, pentyl ester

**Inchi:** InChI=1S/C20H33NO3/c1-2-3-4-8-24-19(23)7-5-6-18(22)21-20-12-15-9-16(13-20)11-17(
**InchiKey:** ZGJCTVYGIWOEJL-UHFFFAOYSA-N
**Formula:** C20H33NO3
**SMILES:** CCCCCOC(=O)CCCC(=O)NC12CC3CC(CC(C3)C1)C2
**Mol. weight [g/mol]:** 335.48

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 1.02 | kJ/mol | Joback Method |
| hf | -552.90 | kJ/mol | Joback Method |
| hfus | 44.12 | kJ/mol | Joback Method |
| hvap | 80.90 | kJ/mol | Joback Method |
| log10ws | -5.09 | | Crippen Method |
| logp | 3.975 | | Crippen Method |
| mcvol | 279.070 | ml/mol | McGowan Method |
| pc | 1491.89 | kPa | Joback Method |
| rinpol | 2714.00 | | NIST Webbook |
| rinpol | 2714.00 | | NIST Webbook |
| tb | 857.39 | K | Joback Method |
| tc | 1066.36 | K | Joback Method |
| tf | 559.87 | K | Joback Method |
| vc | 1.081 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 958.07 | J/mol×K | 857.39 | Joback Method |
| cpg | 978.44 | J/mol×K | 892.22 | Joback Method |
| cpg | 998.38 | J/mol×K | 927.05 | Joback Method |
| cpg | 1018.07 | J/mol×K | 961.87 | Joback Method |
| cpg | 1037.70 | J/mol×K | 996.70 | Joback Method |
| cpg | 1057.42 | J/mol×K | 1031.53 | Joback Method |
| cpg | 1077.44 | J/mol×K | 1066.36 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U360248&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 |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |

# Legend

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|---|---|
| **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 |
| **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 |