

Glutaric acid, (2-chlorocyclohexyl)methyl 2,2,3,3-tetrafluoropropyl ester

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| Inchi: | InChI=1S/C15H21ClF4O4/c16-11-5-2-1-4-10(11)8-23-12(21)6-3-7-13(22)24-9-15(19,20) |
| InchiKey: | NTHKUDADTQZNFB-UHFFFAOYSA-N |
| Formula: | C15H21ClF4O4 |
| SMILES: | O=C(CCCC(=O)OCC(F)(F)C(F)F)OCC1CCCCC1Cl |
| Mol. weight [g/mol]: | 376.77 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -1166.45 | kJ/mol | Joback Method |
| hf | -1622.76 | kJ/mol | Joback Method |
| hfus | 38.67 | kJ/mol | Joback Method |
| hvap | 66.85 | kJ/mol | Joback Method |
| log10ws | -4.37 | | Crippen Method |
| logp | 3.941 | | Crippen Method |
| mvol | 245.550 | ml/mol | McGowan Method |
| pc | 1497.67 | kPa | Joback Method |
| rinpol | 2026.00 | | NIST Webbook |
| rinpol | 2026.00 | | NIST Webbook |
| tb | 740.90 | K | Joback Method |
| tc | 928.09 | K | Joback Method |
| tf | 425.97 | K | Joback Method |
| vc | 0.960 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 738.84 | J/molxK | 740.90 | Joback Method |
| cpg | 754.46 | J/molxK | 772.10 | Joback Method |
| cpg | 769.04 | J/molxK | 803.30 | Joback Method |
| cpg | 782.60 | J/molxK | 834.49 | Joback Method |
| cpg | 795.18 | J/molxK | 865.69 | Joback Method |
| cpg | 806.78 | J/molxK | 896.89 | Joback Method |
| cpg | 817.44 | J/molxK | 928.09 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U405439&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.cheméo.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 |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| r in pol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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