# Glutaric acid, di(4-fluorobenzyl) ester

**Inchi:** InChI=1S/C19H18F2O4/c20-16-8-4-14(5-9-16)12-24-18(22)2-1-3-19(23)25-13-15-6-10-1
**InchiKey:** UVFQEIFQQNGJFQ-UHFFFAOYSA-N
**Formula:** C19H18F2O4
**SMILES:** O=C(CCCC(=O)OCc1ccc(F)cc1)OCc1ccc(F)cc1
**Mol. weight [g/mol]:** 348.34

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -542.80 | kJ/mol | Joback Method |
| hf | -867.19 | kJ/mol | Joback Method |
| hfus | 44.00 | kJ/mol | Joback Method |
| hvap | 80.44 | kJ/mol | Joback Method |
| log10ws | -5.36 | | Crippen Method |
| logp | 3.922 | | Crippen Method |
| mcvol | 249.470 | ml/mol | McGowan Method |
| pc | 1724.59 | kPa | Joback Method |
| rinpol | 2538.00 | | NIST Webbook |
| rinpol | 2538.00 | | NIST Webbook |
| tb | 848.56 | K | Joback Method |
| tc | 1062.01 | K | Joback Method |
| tf | 527.27 | K | Joback Method |
| vc | 0.968 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 738.08 | J/mol×K | 848.56 | Joback Method |
| cpg | 751.06 | J/mol×K | 884.14 | Joback Method |
| cpg | 762.90 | J/mol×K | 919.71 | Joback Method |
| cpg | 773.64 | J/mol×K | 955.29 | Joback Method |
| cpg | 783.29 | J/mol×K | 990.86 | Joback Method |
| cpg | 791.90 | J/mol×K | 1026.44 | Joback Method |
| cpg | 799.48 | J/mol×K | 1062.01 | Joback Method |

# Sources

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|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U377486&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 |

# 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 |