

# Glutaric acid, di(2-fluoro-5-nitrobenzyl) ester

**Inchi:** InChI=1S/C19H16F2N2O8/c20-16-6-4-14(22(26)27)8-12(16)10-30-18(24)2-1-3-19(25)31  
**InchiKey:** XBZZQOLIZZMTPT-UHFFFAOYSA-N  
**Formula:** C19H16F2N2O8  
**SMILES:** O=C(CCCC(=O)OCc1cc([N+](=O)[O-])ccc1F)OCc1cc([N+](=O)[O-])ccc1F  
**Mol. weight [g/mol]:** 438.34

## Physical Properties

Property code	Value	Unit	Source
gf	-490.96	kJ/mol	Joback Method
hf	-911.65	kJ/mol	Joback Method
hfus	65.95	kJ/mol	Joback Method
hvap	114.95	kJ/mol	Joback Method
log10ws	-6.66		Crippen Method
logp	3.738		Crippen Method
mvol	284.310	ml/mol	McGowan Method
pc	1716.03	kPa	Joback Method
rinpol	2320.00		NIST Webbook
rinpol	2320.00		NIST Webbook
tb	1162.20	K	Joback Method
tc	1424.85	K	Joback Method
tf	839.53	K	Joback Method
vc	1.131	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	901.10	J/mol×K	1162.20	Joback Method
cpg	905.05	J/mol×K	1205.98	Joback Method
cpg	907.42	J/mol×K	1249.75	Joback Method
cpg	908.27	J/mol×K	1293.53	Joback Method
cpg	907.64	J/mol×K	1337.30	Joback Method
cpg	905.56	J/mol×K	1381.08	Joback Method
cpg	902.09	J/mol×K	1424.85	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U370931&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U370931&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvp:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinp:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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