

# Glutaric acid, di(3,4-difluorobenzyl) ester

**Inchi:** InChI=1S/C19H16F4O4/c20-14-6-4-12(8-16(14)22)10-26-18(24)2-1-3-19(25)27-11-13-5-  
**InchiKey:** KPAJSEXTJXZQKE-UHFFFAOYSA-N  
**Formula:** C19H16F4O4  
**SMILES:** O=C(CCCC(=O)OCc1ccc(F)c(F)c1)OCc1ccc(F)c(F)c1  
**Mol. weight [g/mol]:** 384.32

## Physical Properties

Property code	Value	Unit	Source
gf	-951.68	kJ/mol	Joback Method
hf	-1282.35	kJ/mol	Joback Method
hfus	49.39	kJ/mol	Joback Method
hvap	80.13	kJ/mol	Joback Method
log10ws	-6.02		Crippen Method
logp	4.200		Crippen Method
mcvol	253.010	ml/mol	McGowan Method
pc	1564.75	kPa	Joback Method
rinpol	2690.00		NIST Webbook
tb	857.06	K	Joback Method
tc	1062.03	K	Joback Method
tf	553.49	K	Joback Method
vc	1.004	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	750.40	J/molxK	857.06	Joback Method
cpg	762.38	J/molxK	891.22	Joback Method
cpg	773.32	J/molxK	925.38	Joback Method
cpg	783.24	J/molxK	959.54	Joback Method
cpg	792.13	J/molxK	993.70	Joback Method
cpg	800.03	J/molxK	1027.86	Joback Method
cpg	806.95	J/molxK	1062.03	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U377644&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377644&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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