

# Glutaric acid, isobutyl pentafluorobenzyl ester

**Inchi:** InChI=1S/C16H17F5O4/c1-8(2)6-24-10(22)4-3-5-11(23)25-7-9-12(17)14(19)16(21)15(20)  
**InchiKey:** CJNAGPFAZANGLN-UHFFFAOYSA-N  
**Formula:** C16H17F5O4  
**SMILES:** CC(C)COC(=O)CCCC(=O)OCc1c(F)c(F)c(F)c(F)c1F  
**Mol. weight [g/mol]:** 368.30

## Physical Properties

Property code	Value	Unit	Source
gf	-1296.23	kJ/mol	Joback Method
hf	-1669.82	kJ/mol	Joback Method
hfus	46.74	kJ/mol	Joback Method
hvap	70.64	kJ/mol	Joback Method
log10ws	-5.26		Crippen Method
logp	3.795		Crippen Method
mcvol	236.270	ml/mol	McGowan Method
pc	1453.46	kPa	Joback Method
rinpol	1915.00		NIST Webbook
rinpol	1915.00		NIST Webbook
tb	765.55	K	Joback Method
tc	947.17	K	Joback Method
tf	491.37	K	Joback Method
vc	0.956	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	684.02	J/mol×K	765.55	Joback Method
cpg	696.68	J/mol×K	795.82	Joback Method
cpg	708.58	J/mol×K	826.09	Joback Method
cpg	719.71	J/mol×K	856.36	Joback Method
cpg	730.07	J/mol×K	886.63	Joback Method
cpg	739.66	J/mol×K	916.90	Joback Method
cpg	748.47	J/mol×K	947.17	Joback Method

# Sources

<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=U358867&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358867&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>
<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>

# 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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