

# Glutaric acid, heptyl pentafluorobenzyl ester

<b>Inchi:</b>	InChI=1S/C19H23F5O4/c1-2-3-4-5-6-10-27-13(25)8-7-9-14(26)28-11-12-15(20)17(22)19
<b>InchiKey:</b>	YBOMQWLOEUIWEK-UHFFFAOYSA-N
<b>Formula:</b>	C19H23F5O4
<b>SMILES:</b>	CCCCCCCOC(=O)CCCC(=O)OCc1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	410.38

## Physical Properties

Property code	Value	Unit	Source
gf	-1268.53	kJ/mol	Joback Method
hf	-1726.46	kJ/mol	Joback Method
hfus	58.04	kJ/mol	Joback Method
hvap	77.70	kJ/mol	Joback Method
log10ws	-6.76		Crippen Method
logp	5.109		Crippen Method
mcvol	278.540	ml/mol	McGowan Method
pc	1173.63	kPa	Joback Method
rinpola	2272.00		NIST Webbook
tb	834.63	K	Joback Method
tc	1022.84	K	Joback Method
tf	540.18	K	Joback Method
vc	1.129	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	853.27	J/mol×K	834.63	Joback Method
cpg	867.25	J/mol×K	866.00	Joback Method
cpg	880.27	J/mol×K	897.37	Joback Method
cpg	892.34	J/mol×K	928.73	Joback Method
cpg	903.45	J/mol×K	960.10	Joback Method
cpg	913.62	J/mol×K	991.47	Joback Method
cpg	922.84	J/mol×K	1022.84	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=U358872&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358872&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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