

# Glutaric acid, monochloride, pentafluorobenzyl ester

<b>Inchi:</b>	InChI=1S/C12H8ClF5O3/c13-6(19)2-1-3-7(20)21-4-5-8(14)10(16)12(18)11(17)9(5)15/h1-
<b>InchiKey:</b>	CERKZCLELURDSX-UHFFFAOYSA-N
<b>Formula:</b>	C12H8ClF5O3
<b>SMILES:</b>	O=C(Cl)CCCC(=O)OCc1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	330.63

## Physical Properties

Property code	Value	Unit	Source
gf	-1234.40	kJ/mol	Joback Method
hf	-1465.50	kJ/mol	Joback Method
hfus	42.91	kJ/mol	Joback Method
hvap	64.09	kJ/mol	Joback Method
log10ws	-4.89		Crippen Method
logp	3.361		Crippen Method
mcvol	186.280	ml/mol	McGowan Method
pc	1945.79	kPa	Joback Method
rinqol	1728.00		NIST Webbook
tb	689.48	K	Joback Method
tc	872.25	K	Joback Method
tf	468.98	K	Joback Method
vc	0.768	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	471.72	J/molxK	689.48	Joback Method
cpg	481.34	J/molxK	719.94	Joback Method
cpg	490.43	J/molxK	750.40	Joback Method
cpg	498.99	J/molxK	780.86	Joback Method
cpg	507.02	J/molxK	811.32	Joback Method
cpg	514.51	J/molxK	841.79	Joback Method
cpg	521.47	J/molxK	872.25	Joback Method

# Sources

<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U358885&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U358885&amp;Units=SI</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>h vap:</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>m cvol:</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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