

# Glutaric acid, 8-chlorooctyl 2,2,3,3,3-pentafluoropropyl ester

Inchi:	InChI=1S/C16H24ClF5O4/c17-10-5-3-1-2-4-6-11-25-13(23)8-7-9-14(24)26-12-15(18,19)
InchiKey:	ANKTVYCEBQSQOI-UHFFFAOYSA-N
Formula:	C16H24ClF5O4
SMILES:	O=C(CCCC(=O)OCC(F)(F)C(F)(F)F)OCCCCCCCCI
Mol. weight [g/mol]:	410.80

## Physical Properties

Property code	Value	Unit	Source
gf	-1364.30	kJ/mol	Joback Method
hf	-1876.96	kJ/mol	Joback Method
hfus	47.54	kJ/mol	Joback Method
hvap	67.23	kJ/mol	Joback Method
log10ws	-5.37		Crippen Method
logp	5.020		Crippen Method
mvol	272.270	ml/mol	McGowan Method
pc	1200.62	kPa	Joback Method
rinpol	1973.00		NIST Webbook
rinpol	1973.00		NIST Webbook
tb	745.38	K	Joback Method
tc	917.55	K	Joback Method
tf	452.11	K	Joback Method
vc	1.097	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	807.07	J/molxK	745.38	Joback Method
cpg	821.17	J/molxK	774.08	Joback Method
cpg	834.45	J/molxK	802.77	Joback Method
cpg	846.95	J/molxK	831.47	Joback Method
cpg	858.71	J/molxK	860.16	Joback Method
cpg	869.75	J/molxK	888.86	Joback Method
cpg	880.11	J/molxK	917.55	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U393679&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393679&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>hvap:</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>rinpola:</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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