

# Glutaric acid, 2,2,3,3,4,4,5,5-octafluoropentyl cis-hex-3-enyl ester

Inchi:	InChI=1S/C16H20F8O4/c1-2-3-4-5-9-27-11(25)7-6-8-12(26)28-10-14(19,20)16(23,24)15
InchiKey:	BUZFIMIZKLPIRZ-ARJAWSKDSA-N
Formula:	C16H20F8O4
SMILES:	CCC=CCCOC(=O)CCCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)
Mol. weight [g/mol]:	428.31

## Physical Properties

Property code	Value	Unit	Source
gf	-1856.18	kJ/mol	Joback Method
hf	-2346.36	kJ/mol	Joback Method
hfus	41.85	kJ/mol	Joback Method
hvap	58.67	kJ/mol	Joback Method
log10ws	-5.35		Crippen Method
logp	4.770		Crippen Method
mcvol	261.040	ml/mol	McGowan Method
pc	1184.97	kPa	Joback Method
rinpol	1723.00		NIST Webbook
rinpol	1723.00		NIST Webbook
tb	706.25	K	Joback Method
tc	870.71	K	Joback Method
tf	406.30	K	Joback Method
vc	1.065	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	780.02	J/mol×K	706.25	Joback Method
cpg	793.60	J/mol×K	733.66	Joback Method
cpg	806.39	J/mol×K	761.07	Joback Method
cpg	818.42	J/mol×K	788.48	Joback Method
cpg	829.74	J/mol×K	815.89	Joback Method
cpg	840.39	J/mol×K	843.30	Joback Method
cpg	850.43	J/mol×K	870.71	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U394022&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U394022&amp;Units=SI</a>
<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.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>

# 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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