

# Glutaric acid, 2,2,3,3-tetrafluoropropyl cis-hex-3-enyl ester

<b>Inchi:</b>	InChI=1S/C14H20F4O4/c1-2-3-4-5-9-21-11(19)7-6-8-12(20)22-10-14(17,18)13(15)16/h3
<b>InchiKey:</b>	DPRMXGKBVKVTEQ-ARJAWSKDSA-N
<b>Formula:</b>	C14H20F4O4
<b>SMILES:</b>	CCC=CCCOC(=O)CCCC(=O)OCC(F)(F)C(F)F
<b>Mol. weight [g/mol]:</b>	328.30

## Physical Properties

Property code	Value	Unit	Source
gf	-1099.46	kJ/mol	Joback Method
hf	-1503.14	kJ/mol	Joback Method
hfus	39.17	kJ/mol	Joback Method
hvap	60.08	kJ/mol	Joback Method
log10ws	-3.89		Crippen Method
logp	3.500		Crippen Method
mcvol	225.780	ml/mol	McGowan Method
pc	1512.85	kPa	Joback Method
rinpol	1647.00		NIST Webbook
rinpol	1647.00		NIST Webbook
tb	669.87	K	Joback Method
tc	838.32	K	Joback Method
tf	376.56	K	Joback Method
vc	0.902	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	634.98	J/mol×K	669.87	Joback Method
cpg	648.72	J/mol×K	697.94	Joback Method
cpg	661.75	J/mol×K	726.02	Joback Method
cpg	674.09	J/mol×K	754.09	Joback Method
cpg	685.77	J/mol×K	782.17	Joback Method
cpg	696.81	J/mol×K	810.24	Joback Method
cpg	707.23	J/mol×K	838.32	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=U394021&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U394021&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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