

# Glutaric acid, 2,2,3,3-tetrafluoropropyl 4-methylpent-2-yl ester

Inchi:	InChI=1S/C14H22F4O4/c1-9(2)7-10(3)22-12(20)6-4-5-11(19)21-8-14(17,18)13(15)16/h9
InchiKey:	HFAHCCKTJZXNQ-UHFFFAOYSA-N
Formula:	C14H22F4O4
SMILES:	CC(C)CC(C)OC(=O)CCCC(=O)OCC(F)(F)C(F)F
Mol. weight [g/mol]:	330.32

## Physical Properties

Property code	Value	Unit	Source
gf	-1184.56	kJ/mol	Joback Method
hf	-1630.92	kJ/mol	Joback Method
hfus	31.93	kJ/mol	Joback Method
hvap	59.34	kJ/mol	Joback Method
log10ws	-3.91		Crippen Method
logp	3.578		Crippen Method
mcvol	230.080	ml/mol	McGowan Method
pc	1471.36	kPa	Joback Method
rinpol	1506.00		NIST Webbook
rinpol	1506.00		NIST Webbook
tb	664.83	K	Joback Method
tc	832.74	K	Joback Method
tf	351.64	K	Joback Method
vc	0.910	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	657.82	J/mol×K	664.83	Joback Method
cpg	672.49	J/mol×K	692.81	Joback Method
cpg	686.40	J/mol×K	720.80	Joback Method
cpg	699.60	J/mol×K	748.78	Joback Method
cpg	712.07	J/mol×K	776.77	Joback Method
cpg	723.86	J/mol×K	804.75	Joback Method
cpg	734.96	J/mol×K	832.74	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U392480&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U392480&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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