

# Glutaric acid, 2,2,3,3,4,4,5,5-octafluoropentyl 2,6-dimethylnon-1-en-3-yn-5-yl ester

Inchi:	InChI=1S/C21H26F8O4/c1-5-7-14(4)15(11-10-13(2)3)33-17(31)9-6-8-16(30)32-12-19(24)
InchiKey:	ZIVDKJOSFYMTSI-UHFFFAOYSA-N
Formula:	C21H26F8O4
SMILES:	C=C(C)C#CC(OC(=O)CCCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)F)C(C)CCC
Mol. weight [g/mol]:	494.42

## Physical Properties

Property code	Value	Unit	Source
gf	-1617.09	kJ/mol	Joback Method
hf	-2189.40	kJ/mol	Joback Method
hfus	48.08	kJ/mol	Joback Method
hvap	70.63	kJ/mol	Joback Method
log10ws	-7.11		Crippen Method
logp	5.798		Crippen Method
mcvol	322.890	ml/mol	McGowan Method
pc	968.07	kPa	Joback Method
rinpol	1961.00		NIST Webbook
rinpol	1961.00		NIST Webbook
tb	821.17	K	Joback Method
tc	1006.61	K	Joback Method
tf	528.11	K	Joback Method
vc	1.296	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1015.88	J/mol×K	821.17	Joback Method
cpg	1030.89	J/mol×K	852.08	Joback Method
cpg	1044.93	J/mol×K	882.98	Joback Method
cpg	1058.07	J/mol×K	913.89	Joback Method
cpg	1070.37	J/mol×K	944.80	Joback Method
cpg	1081.90	J/mol×K	975.71	Joback Method
cpg	1092.71	J/mol×K	1006.61	Joback Method

# Sources

<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=U393961&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393961&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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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