

# Glutaric acid, dodec-2-en-1-yl 2,2,3,4,4,4-hexafluorobutyl ester

Inchi:	InChI=1S/C21H32F6O4/c1-2-3-4-5-6-7-8-9-10-11-15-30-17(28)13-12-14-18(29)31-16-20
InchiKey:	CDRLFMBPCUGTAH-ZHACJKMWSA-N
Formula:	C21H32F6O4
SMILES:	CCCCCCCCC=CCOC(=O)CCCC(=O)OCC(F)(F)C(F)C(F)(F)F
Mol. weight [g/mol]:	462.47

## Physical Properties

Property code	Value	Unit	Source
gf	-1427.30	kJ/mol	Joback Method
hf	-2048.59	kJ/mol	Joback Method
hfus	56.05	kJ/mol	Joback Method
hvap	72.73	kJ/mol	Joback Method
log10ws	-7.13		Crippen Method
logp	6.476		Crippen Method
mcvol	327.950	ml/mol	McGowan Method
pc	910.53	kPa	Joback Method
rinsol	2215.00		NIST Webbook
tb	825.34	K	Joback Method
tc	1010.55	K	Joback Method
tf	459.05	K	Joback Method
vc	1.319	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1050.78	J/molxK	825.34	Joback Method
cpg	1067.50	J/molxK	856.21	Joback Method
cpg	1083.21	J/molxK	887.08	Joback Method
cpg	1097.98	J/molxK	917.95	Joback Method
cpg	1111.86	J/molxK	948.81	Joback Method
cpg	1124.92	J/molxK	979.68	Joback Method
cpg	1137.21	J/molxK	1010.55	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U393697&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U393697&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>h vap:</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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</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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