

# Glutaric acid, 1-(cyclohex-2-enyl)hex-3-yl 2,2,3,3,4,4,5,5-octafluoropentyl ester

<b>Inchi:</b>	InChI=1S/C22H30F8O4/c1-2-7-16(13-12-15-8-4-3-5-9-15)34-18(32)11-6-10-17(31)33-14
<b>InchiKey:</b>	TZJGDXCTZGFXHQ-UHFFFAOYSA-N
<b>Formula:</b>	C22H30F8O4
<b>SMILES:</b>	CCCC(CCC1C=CCCC1)OC(=O)CCCC(=O)OCC(F)(F)C(F)(F)C(F)(F)C(F)F
<b>Mol. weight [g/mol]:</b>	510.46

## Physical Properties

Property code	Value	Unit	Source
gf	-1833.91	kJ/mol	Joback Method
hf	-2480.60	kJ/mol	Joback Method
hfus	46.72	kJ/mol	Joback Method
hvap	72.40	kJ/mol	Joback Method
log10ws	-7.63		Crippen Method
logp	6.719		Crippen Method
mcvol	334.720	ml/mol	McGowan Method
pc	927.24	kPa	Joback Method
rinpol	2227.00		NIST Webbook
rinpol	2227.00		NIST Webbook
tb	857.64	K	Joback Method
tc	1050.06	K	Joback Method
tf	472.14	K	Joback Method
vc	1.333	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1120.90	J/mol×K	857.64	Joback Method
cpg	1137.32	J/mol×K	889.71	Joback Method
cpg	1152.54	J/mol×K	921.78	Joback Method
cpg	1166.66	J/mol×K	953.85	Joback Method
cpg	1179.75	J/mol×K	985.92	Joback Method
cpg	1191.88	J/mol×K	1017.99	Joback Method
cpg	1203.14	J/mol×K	1050.06	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=U405515&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U405515&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>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

Latest version available from:

<https://www.chemeo.com/cid/119-854-2/Glutaric-acid-1-cyclohex-2-enyl-hex-3-yl-2-2-3-3-4-4-5-5-octafluoropentyl-est>

Generated by Cheméo on 2024-05-02 04:15:59.013541239 +0000 UTC m=+16912607.934118558.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.