

# Glutaric acid, 2,2,3,3,4,4,4-heptafluorobutyl propyl ester

Inchi:	InChI=1S/C12H15F7O4/c1-2-6-22-8(20)4-3-5-9(21)23-7-10(13,14)11(15,16)12(17,18)19
InchiKey:	AZSFHNCOPRRXAT-UHFFFAOYSA-N
Formula:	C12H15F7O4
SMILES:	CCCOC(=O)CCCC(=O)OCC(F)(F)C(F)(F)C(F)(F)F
Mol. weight [g/mol]:	356.23

## Physical Properties

Property code	Value	Unit	Source
gf	-1772.83	kJ/mol	Joback Method
hf	-2179.63	kJ/mol	Joback Method
hfus	31.73	kJ/mol	Joback Method
hvap	51.01	kJ/mol	Joback Method
log10ws	-3.86		Crippen Method
logp	3.486		Crippen Method
mcvol	207.210	ml/mol	McGowan Method
pc	1554.90	kPa	Joback Method
rinsol	1443.00		NIST Webbook
tb	611.74	K	Joback Method
tc	769.46	K	Joback Method
tf	380.71	K	Joback Method
vc	0.849	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	581.56	J/mol×K	611.74	Joback Method
cpg	594.05	J/mol×K	638.03	Joback Method
cpg	605.84	J/mol×K	664.31	Joback Method
cpg	616.96	J/mol×K	690.60	Joback Method
cpg	627.45	J/mol×K	716.89	Joback Method
cpg	637.32	J/mol×K	743.18	Joback Method
cpg	646.60	J/mol×K	769.46	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.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=U377546&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377546&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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