

# 3-Amino-1-propanol, N,O-di(heptafluorobutryl)-

<b>Inchi:</b>	InChI=1S/C11H7F14NO3/c12-6(13,8(16,17)10(20,21)22)4(27)26-2-1-3-29-5(28)7(14,15)
<b>InchiKey:</b>	DWCOAJWZQZMFTA-UHFFFAOYSA-N
<b>Formula:</b>	C11H7F14NO3
<b>SMILES:</b>	O=C(NCCCCOC(=O)C(F)(F)C(F)(F)C(F)(F)F)C(F)(F)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	467.16

## Physical Properties

Property code	Value	Unit	Source
gf	-2942.01	kJ/mol	Joback Method
hf	-3372.32	kJ/mol	Joback Method
hfus	32.37	kJ/mol	Joback Method
hvap	43.20	kJ/mol	Joback Method
log10ws	-4.84		Crippen Method
logp	3.702		Crippen Method
mcvol	209.620	ml/mol	McGowan Method
pc	1404.84	kPa	Joback Method
rinpol	1137.00		NIST Webbook
rinpol	1137.00		NIST Webbook
tb	601.81	K	Joback Method
tc	747.44	K	Joback Method
tf	411.26	K	Joback Method
vc	0.902	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	624.46	J/mol×K	601.81	Joback Method
cpg	635.06	J/mol×K	626.08	Joback Method
cpg	644.86	J/mol×K	650.35	Joback Method
cpg	653.93	J/mol×K	674.62	Joback Method
cpg	662.30	J/mol×K	698.90	Joback Method
cpg	670.03	J/mol×K	723.17	Joback Method
cpg	677.17	J/mol×K	747.44	Joback Method

# Sources

<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=U374892&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U374892&amp;Units=SI</a>
<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>

# 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>rlnol:</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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