

# L-Phenylalanine, n-heptafluorobutyryl-, propyl ester

Inchi:	InChI=1S/C16H16F7NO3/c1-2-8-27-12(25)11(9-10-6-4-3-5-7-10)24-13(26)14(17,18)15(1
InchiKey:	BENJCXJHHRAYLJ-UHFFFAOYSA-N
Formula:	C16H16F7NO3
SMILES:	CCCOC(=O)C(Cc1ccccc1)NC(=O)C(F)(F)C(F)(F)C(F)(F)F
Mol. weight [g/mol]:	403.29

## Physical Properties

Property code	Value	Unit	Source
gf	-1434.79	kJ/mol	Joback Method
hf	-1845.25	kJ/mol	Joback Method
hfus	36.52	kJ/mol	Joback Method
hvap	65.83	kJ/mol	Joback Method
log10ws	-4.85		Crippen Method
logp	3.500		Crippen Method
mcvol	243.920	ml/mol	McGowan Method
pc	1536.66	kPa	Joback Method
rinpol	1647.00		NIST Webbook
rinpol	1647.00		NIST Webbook
tb	757.25	K	Joback Method
tc	943.70	K	Joback Method
tf	467.64	K	Joback Method
vc	0.976	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	738.32	J/mol×K	757.25	Joback Method
cpg	750.67	J/mol×K	788.32	Joback Method
cpg	762.10	J/mol×K	819.40	Joback Method
cpg	772.68	J/mol×K	850.47	Joback Method
cpg	782.50	J/mol×K	881.55	Joback Method
cpg	791.62	J/mol×K	912.62	Joback Method
cpg	800.11	J/mol×K	943.70	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U321108&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321108&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>

# 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

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