

# L-Phenylalanine, n-pentafluoropropionyl-, octyl ester

<b>Inchi:</b>	InChI=1S/C20H26F5NO3/c1-2-3-4-5-6-10-13-29-17(27)16(14-15-11-8-7-9-12-15)26-18(2
<b>InchiKey:</b>	PHECSIOHURIUHP-UHFFFAOYSA-N
<b>Formula:</b>	C20H26F5NO3
<b>SMILES:</b>	CCCCCCCCOC(=O)C(Cc1ccccc1)NC(=O)C(F)(F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	423.42

## Physical Properties

Property code	Value	Unit	Source
gf	-1014.33	kJ/mol	Joback Method
hf	-1526.84	kJ/mol	Joback Method
hfus	48.13	kJ/mol	Joback Method
hvap	77.66	kJ/mol	Joback Method
log10ws	-6.21		Crippen Method
logp	4.815		Crippen Method
mcvol	296.740	ml/mol	McGowan Method
pc	1219.14	kPa	Joback Method
rinpol	2087.00		NIST Webbook
rinpol	2087.00		NIST Webbook
tb	853.46	K	Joback Method
tc	1048.66	K	Joback Method
tf	509.12	K	Joback Method
vc	1.175	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	947.59	J/molxK	853.46	Joback Method
cpg	961.92	J/molxK	885.99	Joback Method
cpg	975.27	J/molxK	918.53	Joback Method
cpg	987.71	J/molxK	951.06	Joback Method
cpg	999.32	J/molxK	983.59	Joback Method
cpg	1010.17	J/molxK	1016.13	Joback Method
cpg	1020.33	J/molxK	1048.66	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=U321023&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321023&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

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