

Sarcosine, N-(3-phenylpropionyl)-, hexyl ester

Inchi:	InChI=1S/C18H27NO3/c1-3-4-5-9-14-22-18(21)15-19(2)17(20)13-12-16-10-7-6-8-11-16/
InchiKey:	NVLBDUUSVHNJFR-UHFFFAOYSA-N
Formula:	C18H27NO3
SMILES:	CCCCCOC(=O)CN(C)C(=O)CCc1ccccc1
Mol. weight [g/mol]:	305.41

Physical Properties

Property code	Value	Unit	Source
gf	-38.97	kJ/mol	Joback Method
hf	-468.17	kJ/mol	Joback Method
hfus	43.82	kJ/mol	Joback Method
hvap	75.88	kJ/mol	Joback Method
log10ws	-3.67		Crippen Method
logp	3.201		Crippen Method
mcvol	259.710	ml/mol	McGowan Method
pc	1589.81	kPa	Joback Method
rinpol	2424.00		NIST Webbook
rinpol	2424.00		NIST Webbook
tb	780.52	K	Joback Method
tc	978.42	K	Joback Method
tf	473.60	K	Joback Method
vc	0.984	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	774.46	J/molxK	780.52	Joback Method
cpg	790.69	J/molxK	813.50	Joback Method
cpg	805.87	J/molxK	846.49	Joback Method
cpg	820.05	J/molxK	879.47	Joback Method
cpg	833.27	J/molxK	912.45	Joback Method
cpg	845.57	J/molxK	945.44	Joback Method
cpg	856.99	J/molxK	978.42	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U321416&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvp:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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