Sarcosine, N-(cyclohexylcarbonyl)-, hexadecyl ester

Inchi: InChI=1S/C26H49NO3/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-19-22-30-25(28)23-27(2)26(

InchiKey: PJXRZCFOWNSHJJ-UHFFFAOYSA-N

Formula: C26H49NO3

SMILES: CCCCCCCCCCCCCCCCCOC(=O)CN(C)C(=O)C1CCCCC1

Mol. weight [g/mol]: 423.67

Physical Properties

Property code	Value	Unit	Source
gf	-59.57	kJ/mol	Joback Method
hf	-815.50	kJ/mol	Joback Method
hfus	62.34	kJ/mol	Joback Method
hvap	91.84	kJ/mol	Joback Method
log10ws	-7.57		Crippen Method
logp	7.050		Crippen Method
mcvol	385.330	ml/mol	McGowan Method
pc	864.04	kPa	Joback Method
tb	956.43	K	Joback Method
tc	1171.51	K	Joback Method
tf	544.72	K	Joback Method
vc	1.472	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1355.35	J/mol×K	956.43	Joback Method
cpg	1376.08	J/mol×K	992.28	Joback Method
cpg	1395.21	J/mol×K	1028.12	Joback Method
cpg	1412.80	J/mol×K	1063.97	Joback Method
cpg	1428.94	J/mol×K	1099.82	Joback Method
cpg	1443.70	J/mol×K	1135.67	Joback Method
cpg	1457.15	J/mol×K	1171.51	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U321541&Units=SI

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
hvap:	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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume