

«beta»-Alanine, N-isobutyryl-, nonyl ester

Inchi:

InChI=1S/C16H31NO3/c1-4-5-6-7-8-9-10-13-20-15(18)11-12-17-16(19)14(2)3/h14H,4-13

InchiKey:

JYBFYXBTJSVOHR-UHFFFAOYSA-N

Formula:

C16H31NO3

SMILES:

CCCCCCCCCOC(=O)CCNC(=O)C(C)C

Mol. weight [g/mol]:

285.42

Physical Properties

Property code	Value	Unit	Source
gf	-192.05	kJ/mol	Joback Method
hf	-682.76	kJ/mol	Joback Method
hfus	43.16	kJ/mol	Joback Method
hvap	73.16	kJ/mol	Joback Method
log10ws	-4.11		Crippen Method
logp	3.443		Crippen Method
mcvol	255.290	ml/mol	McGowan Method
pc	1452.35	kPa	Joback Method
rinpol	2113.00		NIST Webbook
rinpol	2113.00		NIST Webbook
tb	745.37	K	Joback Method
tc	926.90	K	Joback Method
tf	429.83	K	Joback Method
vc	0.991	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	765.34	J/mol×K	745.37	Joback Method
cpg	781.92	J/mol×K	775.63	Joback Method
cpg	797.62	J/mol×K	805.88	Joback Method
cpg	812.46	J/mol×K	836.14	Joback Method
cpg	826.46	J/mol×K	866.39	Joback Method
cpg	839.64	J/mol×K	896.65	Joback Method
cpg	852.02	J/mol×K	926.90	Joback Method

Sources

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=U321667&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

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
hvac:	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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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