

L-Norvaline, N-propoxycarbonyl-, heptyl ester

Inchi:	InChI=1S/C16H31NO4/c1-4-7-8-9-10-13-20-15(18)14(11-5-2)17-16(19)21-12-6-3/h14H,4
InchiKey:	KCJCYBOVCIUDD-UHFFFAOYSA-N
Formula:	C16H31NO4
SMILES:	CCCCCCCOC(=O)C(CCC)NC(=O)OCCC
Mol. weight [g/mol]:	301.43

Physical Properties

Property code	Value	Unit	Source
hfus	44.35	kJ/mol	Joback Method
hvap	89.49	kJ/mol	Cheméo Relay (1.0)
log10ws	-4.23		Cheméo Relay (1.0)
logp	3.805		Crippen Method
mcvol	261.160	ml/mol	McGowan Method
pc	1433.72	kPa	Joback Method
rinpol	1829.00		NIST Webbook
rinpol	1829.00		NIST Webbook
tb	581.89	K	Cheméo Relay (1.0)
tc	770.62	K	Cheméo Relay (1.0)
tf	282.37	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	795.32	J/mol×K	767.79	Joback Method
cpg	811.65	J/mol×K	798.27	Joback Method
cpg	827.08	J/mol×K	828.74	Joback Method
cpg	841.60	J/mol×K	859.22	Joback Method
cpg	855.22	J/mol×K	889.70	Joback Method
cpg	867.97	J/mol×K	920.17	Joback Method
cpg	879.84	J/mol×K	950.65	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=U320733&Units=SI>

Joback Method:

https://en.wikipedia.org/wiki/Joback_method

McGowan Method:

<http://link.springer.com/article/10.1007/BF02311772>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method:

https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

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