

D-Alanine, N-propargyloxycarbonyl-, tridecyl ester

Inchi:	InChI=1S/C20H35NO4/c1-4-6-7-8-9-10-11-12-13-14-15-17-24-19(22)18(3)21-20(23)25-1
InchiKey:	MZHDDJPJZGRJBZ-UHFFFAOYSA-N
Formula:	C20H35NO4
SMILES:	C#CCOC(=O)NC(C)C(=O)OCCCCCCCCCCCCC
Mol. weight [g/mol]:	353.50

Physical Properties

Property code	Value	Unit	Source
gf	-40.30	kJ/mol	Joback Method
hf	-605.64	kJ/mol	Joback Method
hfus	57.68	kJ/mol	Joback Method
hvap	84.33	kJ/mol	Joback Method
log10ws	-5.99		Crippen Method
logp	4.589		Crippen Method
mcvol	308.920	ml/mol	McGowan Method
pc	1208.15	kPa	Joback Method
rinqol	2432.00		NIST Webbook
tb	849.43	K	Joback Method
tc	1042.93	K	Joback Method
tf	544.11	K	Joback Method
vc	1.194	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	976.56	J/mol×K	849.43	Joback Method
cpg	993.34	J/mol×K	881.68	Joback Method
cpg	1009.05	J/mol×K	913.93	Joback Method
cpg	1023.72	J/mol×K	946.18	Joback Method
cpg	1037.36	J/mol×K	978.43	Joback Method
cpg	1050.01	J/mol×K	1010.68	Joback Method
cpg	1061.70	J/mol×K	1042.93	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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=U347744&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
mccvol:	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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