

BUTANAMIDE, N,N-DIBUTYL-

Other names:	Butyramide, N,N-dibutyl-
Inchi:	InChI=1S/C12H25NO/c1-4-7-10-13(11-8-5-2)12(14)9-6-3/h4-11H2,1-3H3
InchiKey:	YIGDAUSYXKBHT-UHFFFAOYSA-N
Formula:	C12H25NO
SMILES:	CCCCN(CCCC)C(=O)CCC
Mol. weight [g/mol]:	199.34

Physical Properties

Property code	Value	Unit	Source
af	0.6529		Cheméo Relay (1.0)
gf	32.02	kJ/mol	Joback Method
hf	-410.94	kJ/mol	Cheméo Relay (1.0)
hfus	31.46	kJ/mol	Joback Method
hvap	60.31	kJ/mol	Cheméo Relay (1.0)
ie	8.05	eV	Cheméo Relay (1.0)
log10ws	-2.31		Cheméo Relay (1.0)
logp	3.215		Crippen Method
mcvol	191.490	ml/mol	McGowan Method
pc	1875.65	kPa	Joback Method
rinpol	1437.00		NIST Webbook
tb	519.92	K	Cheméo Relay (1.0)
tc	701.13	K	Cheméo Relay (1.0)
tf	242.46	K	Cheméo Relay (1.0)
vc	0.723	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	472.67	J/mol×K	540.27	Joback Method
cpg	489.15	J/mol×K	568.39	Joback Method
cpg	504.91	J/mol×K	596.52	Joback Method
cpg	519.98	J/mol×K	624.64	Joback Method
cpg	534.38	J/mol×K	652.77	Joback Method
cpg	548.14	J/mol×K	680.89	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C14287957&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

af:	Acentric Factor
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
ie:	Ionization energy
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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