

UREA, N-BUTYL-N'-METHYL-

Other names:	1-Butyl-3-methylurea Urea, N-butyl-N'-methyl-
Inchi:	InChI=1S/C6H14N2O/c1-3-4-5-8-6(9)7-2/h3-5H2,1-2H3,(H2,7,8,9)
InchiKey:	SIVFQKCLFRMMSZ-UHFFFAOYSA-N
Formula:	C6H14N2O
SMILES:	CCCCNC(=O)NC
Mol. weight [g/mol]:	130.19

Physical Properties

Property code	Value	Unit	Source
hf	-300.92	kJ/mol	Cheméo Relay (1.0)
hfus	23.09	kJ/mol	Joback Method
hvap	68.21	kJ/mol	Cheméo Relay (1.0)
ie	8.81	eV	Cheméo Relay (1.0)
log10ws	-0.76		Cheméo Relay (1.0)
logp	0.716		Crippen Method
mcvol	116.930	ml/mol	McGowan Method
tb	489.65	K	Cheméo Relay (1.0)
tf	299.14	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	261.83	J/mol×K	490.89	Joback Method
cpg	273.17	J/mol×K	521.70	Joback Method
cpg	283.99	J/mol×K	552.51	Joback Method
cpg	294.32	J/mol×K	583.32	Joback Method
cpg	304.16	J/mol×K	614.12	Joback Method
cpg	313.53	J/mol×K	644.93	Joback Method
cpg	322.45	J/mol×K	675.74	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C6135360&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
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
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

Latest version available from:

<https://www.chemeo.com/cid/12-397-8/UREA-N-BUTYL-N-METHYL.pdf>

Generated by Cheméo on 2026-07-21 14:50:55.531107629 +0000 UTC m=+156551.372993014.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.