

Biurea, 1,6-bis(2-chloroethyl)-

Inchi:	InChI=1S/C6H12Cl2N4O2/c7-1-3-9-5(13)11-12-6(14)10-4-2-8/h1-4H2,(H2,9,11,13)(H2,1
InchiKey:	NFIHKVBHHCVQIS-UHFFFAOYSA-N
Formula:	C6H12Cl2N4O2
SMILES:	O=C(NCCCCI)NNC(=O)NCCCCI
Mol. weight [g/mol]:	243.09
CAS:	16813-42-6

Physical Properties

Property code	Value	Unit	Source
gf	75.50	kJ/mol	Joback Method
hf	-209.93	kJ/mol	Joback Method
hfus	43.28	kJ/mol	Joback Method
hvap	76.96	kJ/mol	Joback Method
log10ws	-1.89		Crippen Method
logp	-0.023		Crippen Method
mcvol	162.940	ml/mol	McGowan Method
pc	3501.28	kPa	Joback Method
tb	719.96	K	Joback Method
tc	923.05	K	Joback Method
tf	527.72	K	Joback Method
vc	0.622	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	413.86	J/mol×K	719.96	Joback Method
cpg	422.83	J/mol×K	753.81	Joback Method
cpg	431.19	J/mol×K	787.66	Joback Method
cpg	438.95	J/mol×K	821.50	Joback Method
cpg	446.14	J/mol×K	855.35	Joback Method
cpg	452.79	J/mol×K	889.20	Joback Method
cpg	458.91	J/mol×K	923.05	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=C16813426&Units=SI
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
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
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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