N,N'-ETHYLENEBIS(N-NITROACETAMIDE)

Other names: N,N'-Ethylenebis(N-nitroacetamide)
N,N'-dinitro-N,N'-diacetyl-1,2-diaminoethane
Inchi: InChI=1S/C6H10N4O6/c1-5(11)7(9(13)14)3-4-8(6(2)12)10(15)16/h3-4H2,1-2H3
InchiKey: QYYIAMKTNITMRW-UHFFFAOYSA-N
Formula: C6H10N4O6
SMILES: CC(=O)N(CCN(C(C)=O)[N+](=O)[O-])[N+](=O)[O-]
Mol. weight [g/mol]: 234.17

Physical Properties

Property code	Value	Unit	Source
hfus	43.26	kJ/mol	Joback Method
logp	-0.933		Crippen Method
mcvol	153.340	ml/mol	McGowan Method
tf	389.45	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	432.77	J/mol×K	772.98	Joback Method
cpg	441.83	J/mol×K	811.74	Joback Method
cpg	450.08	J/mol×K	850.50	Joback Method
cpg	457.59	J/mol×K	889.26	Joback Method
cpg	464.41	J/mol×K	928.03	Joback Method
cpg	470.60	J/mol×K	966.79	Joback Method
cpg	476.20	J/mol×K	1005.55	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C922894&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
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tf:	Normal melting (fusion) point