

1,3,5-Triazine-2,4,6-triamine

Other names:	1,3,5-Triazine-2,4,6(1H,3H,5H)-triimine
	2,4,6-Triamino-s-triazine
	2,4,6-triamino-1,3,5-triazine
	2,4,6-triaminotriazine
	ADK Stab ZS 27
	Aero
	Cyanuric triamide
	Cyanurotriamine
	Cyanurtriamide
	DG 002
	DG 002 (amine)
	Hicophor PR
	Isomelamine
	Mark ZS 27
	NCI-C50715
	NSC 2130
	Pluragard
	Pluragard C 133
	Spinflam ML 94M
	Teoharn
	Theoharn
	Triaminotriazine
	Virset 656-4
	Yukamelamine
	ZS 27
	cyanuramide
	cyanurotriamide
	melamine
	s-Triazine, 4,6-diamino-1,2-dihydro-2-imino-
	s-triazine, 2,4,6-triamino-
	s-triazinetriamine
Inchi:	InChI=1S/C3H6N6/c4-1-7-2(5)9-3(6)8-1/h(H6,4,5,6,7,8,9)
InchiKey:	JDSHMPZPIAZGSV-UHFFFAOYSA-N
Formula:	C3H6N6
SMILES:	Nc1nc(N)nc(N)n1
Mol. weight [g/mol]:	126.12
CAS:	108-78-1

Physical Properties

Property code	Value	Unit	Source
chs	-1966.40 ± 2.00	kJ/mol	NIST Webbook
chs	-1966.40	kJ/mol	NIST Webbook
chs	-1972.00 ± 3.00	kJ/mol	NIST Webbook
chs	-2008.94	kJ/mol	NIST Webbook
hfs	-71.70 ± 2.00	kJ/mol	NIST Webbook
hfs	-86.86	kJ/mol	NIST Webbook
hfs	-66.10 ± 3.30	kJ/mol	NIST Webbook
hfs	-71.67	kJ/mol	NIST Webbook
hsub	120.00 ± 4.00	kJ/mol	NIST Webbook
log10ws	0.33		Crippen Method
logp	-1.382		Crippen Method
mcvol	89.250	ml/mol	McGowan Method
ss	149.08	J/mol×K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	156.11	J/mol×K	299.95	NIST Webbook
hsubt	123.30	kJ/mol	432.00	NIST Webbook
hsubt	121.30 ± 4.20	kJ/mol	515.50	NIST Webbook

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C108781&Units=SI>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Solubility of Tripolycyanamide and <https://www.doi.org/10.1021/je0342015>

Cyanuric Acid in Ethanediol, <http://link.springer.com/article/10.1007/BF02311772>

McGowan Method
N,N-Dimethylformamide, and
N,N-Dimethylacetamide from (301.07 to
363.35) K:

Legend

chs:	Standard solid enthalpy of combustion
cps:	Solid phase heat capacity
hfs:	Solid phase enthalpy of formation at standard conditions
hsub:	Enthalpy of sublimation at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
ss:	Solid phase molar entropy at standard conditions

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