

N,N,N',N'-Tetrakis(2-hydroxyethyl)ethylenediamin

Other names:	(Tetrahydroxyethyl)ethylenediamine N,N,N,N-Tetrakis(2hydroxyethyl)ethylenediamine Ethanol, 2,2',2'',2'''-(1,2-ethanediylidinitrilo)tetrakis- Ethanol, 2,2',2'',2'''-(ethylenedinitrilo)tetra- Ethylenediamine tetraethanol Ethylenediamine, N,N,N',N'-tetrakis(2-hydroxyethyl)- Ethylenedinitrilotetraethanol ENTOL N,N,N',N'-Tetrakis(hydroxyethyl)ethylenediamine N,N,N',N'-Tetrakis(2-hydroxyethyl)-1,2-diaminoethane Tetrakis(hydroxyethyl)ethylenediamine Theed TKED 2,2',2'',2'''-(Ethylenediimino)tetraethanol NSC 21705 2,2',2'',2'''-ethylenedinitrilotetraethanol
Inchi:	InChI=1S/C10H24N2O4/c13-7-3-11(4-8-14)1-2-12(5-9-15)6-10-16/h13-16H,1-10H2
InchiKey:	BYACHAOC SIPLCM-UHFFFAOYSA-N
Formula:	C10H24N2O4
SMILES:	OCCN(CCO)CCN(CCO)CCO
Mol. weight [g/mol]:	236.31
CAS:	140-07-8

Physical Properties

Property code	Value	Unit	Source
gf	-292.40	kJ/mol	Joback Method
hf	-723.59	kJ/mol	Joback Method
hfus	44.05	kJ/mol	Joback Method
hvap	108.66	kJ/mol	Joback Method
log10ws	1.80		Crippen Method
logp	-2.440		Crippen Method
mcvol	195.200	ml/mol	McGowan Method
pc	3038.96	kPa	Joback Method
tb	821.80	K	Joback Method
tc	1007.78	K	Joback Method
tf	510.68	K	Joback Method
vc	0.708	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	630.39	J/mol×K	821.80	Joback Method
cpg	641.31	J/mol×K	852.80	Joback Method
cpg	651.65	J/mol×K	883.79	Joback Method
cpg	661.46	J/mol×K	914.79	Joback Method
cpg	670.77	J/mol×K	945.78	Joback Method
cpg	679.62	J/mol×K	976.78	Joback Method
cpg	688.06	J/mol×K	1007.78	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C140078&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
mccvol:	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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