2,2',2'',2'''-(ETHYLENEDINITRILO)TETRAETHANO

Other names: (Tetrahydroxyethyl)ethylenediamine
N,N,N,N-Tetrakis(2hydroxyethyl)ethylenediamine
Ethanol, 2,2',2'',2'''-(1,2-ethanediyldinitrilo)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: BYACHAOCSIPLCM-UHFFFAOYSA-N

Formula: C10H24N2O4

SMILES: OCCN(CCO)CCN(CCO)CCO

Mol. weight [g/mol]: 236.31

Physical Properties

Property code	Value	Unit	Source
hf	-700.23	kJ/mol	Cheméo Relay (1.0)
hfus	44.05	kJ/mol	Joback Method
hvap	137.39	kJ/mol	Cheméo Relay (1.0)
ie	8.71	eV	Cheméo Relay (1.0)
logp	-2.440		Crippen Method
mcvol	195.200	ml/mol	McGowan Method
pc	3038.96	kPa	Joback Method
tb	648.38	K	Cheméo Relay (1.0)
tf	310.72	K	Cheméo Relay (1.0)

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

Cheméo Relay (1.0, beta):

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C140078&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):

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
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
pc: Critical Pressure
tb: Normal Boiling Point Temperature
tf: Normal melting (fusion) point

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