N,2,4,6-Tetramethylbenzenamine

Other names: Benzenamine,N,2,4,6-tetramethyl-
Inchi: InChI=1S/C10H15N/c1-7-5-8(2)10(11-4)9(3)6-7/h5-6,11H,1-4H3
InchiKey: HKABSXHXKCTVGW-UHFFFAOYSA-N
Formula: C10H15N
SMILES: CNc1c(C)cc(C)cc1C
Mol. weight [g/mol]: 149.23
CAS: 13021-14-2

Physical Properties

Property code	Value	Unit	Source
gf	206.23	kJ/mol	Joback Method
hf	5.86	kJ/mol	Joback Method
hfus	19.63	kJ/mol	Joback Method
hvap	48.55	kJ/mol	Joback Method
ie	7.22	eV	NIST Webbook
log10ws	-2.91		Crippen Method
logp	2.654		Crippen Method
mcvol	137.980	ml/mol	McGowan Method
pc	2832.35	kPa	Joback Method
tb	519.99	K	Joback Method
tc	729.83	K	Joback Method
tf	319.10	K	Joback Method
vc	0.522	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	305.23	J/mol×K	519.99	Joback Method
cpg	319.35	J/mol×K	554.96	Joback Method
cpg	332.78	J/mol×K	589.94	Joback Method
cpg	345.53	J/mol×K	624.91	Joback Method
cpg	357.62	J/mol×K	659.89	Joback Method
cpg	369.08	J/mol×K	694.86	Joback Method
cpg	379.90	J/mol×K	729.83	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=C13021142&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
ie:	Ionization energy
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