Benzenamine, 4,4',4''-methylidynetris[N,N-dimethyl-

Other names: Aniline, 4,4',4''-methylidynetris[N,N-dimethyl-
C.I. Basic Violet 3, leuco
Leucocrystal Violet
Leucomethyl green
Tris[p-(dimethylamino)phenyl]methane
Tris[4-(dimethylamino)phenyl]methane
4,4',4''-(Hexamethyltriamino)triphenylmethane
4,4',4''-Methylidynetris(N,N-dimethylaniline)
4,4',4''-Tris(dimethylamino)triphenylmethane
4,4,4-Methylidynetris-(N,N-dimethylaniline)
4,4',4''-Tris(N,N-dimethylaminophenyl)methane
p,p',p''-Methylidynetris(N,N-dimethylaniline)
Leucogentian violet
NSC 7338
N,N,N',N',N'',N''-hexamethyl-4,4',4''-methylidynetrianiline

Inchi: InChI=1S/C25H31N3/c1-26(2)22-13-7-19(8-14-22)25(20-9-15-23(16-10-20)27(3)4)21-11-

InchiKey: OAZWDJGLIYNYMU-UHFFFAOYSA-N

Formula: C25H31N3

SMILES: CN(C)c1ccc(C(c2ccc(N(C)C)cc2)c2ccc(N(C)C)cc2)cc1

Mol. weight [g/mol]: 373.53

CAS: 603-48-5

Physical Properties

Property code	Value	Unit	Source
gf	797.86	kJ/mol	Joback Method
hf	313.16	kJ/mol	Joback Method
hfus	47.00	kJ/mol	Joback Method
hvap	85.80	kJ/mol	Joback Method
log10ws	-4.98		Crippen Method
logp	5.065		Crippen Method
mcvol	321.770	ml/mol	McGowan Method
pc	1404.84	kPa	Joback Method
tb	903.26	K	Joback Method
tc	1135.73	K	Joback Method
tf	570.74	K	Joback Method
vc	1.159	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1016.38	J/mol×K	903.26	Joback Method
cpg	1034.43	J/mol×K	942.00	Joback Method
cpg	1051.16	J/mol×K	980.75	Joback Method
cpg	1066.72	J/mol×K	1019.49	Joback Method
cpg	1081.23	J/mol×K	1058.24	Joback Method
cpg	1094.84	J/mol×K	1096.98	Joback Method
cpg	1107.68	J/mol×K	1135.73	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=C603485&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
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