Phenol, 2,4,6-tris[(dimethylamino)methyl]-

Other names:	Mesitol, «alpha»,«alpha»',«alpha»''-tris(dimethylamino)- «alpha»,«alpha»',«alpha»''-Tri(dimethylamino)mesitol «alpha»,«alpha»',«alpha»''-Tris(dimethylamino)mesitol DMF 3 DMP 30 Mesitol, «alpha»2,«alpha»4,«alpha»6-Tris(dimethylamino)- Tris(2,4,6-dimethylaminomethyl)phenol Tris(2,4,6-dimethylaminomonomethyl)phenol 2,4,6-Tri(dimethylaminomethyl)phenol 2,4,6-Tris[(dimethylamino)methyl]phenol 2,4,6-Tris[(N,N-dimethylamino)methyl]phenol S 41028-4 2,4,6-Tris-N,N-dimethylaminomethylfenol 2,4,6-Tris[(dimethyllamino)methyl]-phenol Actiron NX 3 Ancamine K 54 Anchor K 54 Araldite DY 061 Araldite DY 064 Araldite Hardener HY 960 Araldite HY 960 Capcure EH 30 Dabco TMR 30 DY 061 EH 30 Epilink 230 NSC 3257 Sumicure D UP 606/2
Inchi:	InChI=1S/C15H27N3O/c1-16(2)9-12-7-13(10-17(3)4)15(19)14(8-12)11-18(5)6/h7-8,19H,9
InchiKey:	AHDSRXYHVZECER-UHFFFAOYSA-N
Formula:	C15H27N3O
SMILES:	CN(C)Cc1cc(CN(C)C)c(O)c(CN(C)C)c1
Mol. weight [g/mol]:	265.39
CAS:	90-72-2

Physical Properties

Property code	Value	Unit	Source
gf	346.29	kJ/mol	Joback Method
hf	-114.06	kJ/mol	Joback Method
hfus	42.71	kJ/mol	Joback Method
hvap	71.73	kJ/mol	Joback Method
log10ws	-1.88		Crippen Method
logp	1.577		Crippen Method
mcvol	234.260	ml/mol	McGowan Method
pc	2040.07	kPa	Joback Method
tb	697.18	K	Joback Method
tc	894.28	K	Joback Method
tf	519.40	K	Joback Method
vc	0.787	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	675.86	J/mol×K	697.18	Joback Method
cpg	692.90	J/mol×K	730.03	Joback Method
cpg	709.01	J/mol×K	762.88	Joback Method
cpg	724.27	J/mol×K	795.73	Joback Method
cpg	738.76	J/mol×K	828.58	Joback Method
cpg	752.56	J/mol×K	861.43	Joback Method
cpg	765.75	J/mol×K	894.28	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	405.70	K	0.10	NIST Webbook

Sources

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

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C90722&Units=SI

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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume