9H-Fluoren-2-amine, N,N-dimethyl-

Other names: 2-Dimethylaminofluorene
Fluoren-2-amine, N,N-dimethyl-
2-Fluorenyldimethylamine
N,N-Dimethyl-2-aminofluorene
2-Dimethylamino-fluoren
Inchi: InChI=1S/C15H15N/c1-16(2)13-7-8-15-12(10-13)9-11-5-3-4-6-14(11)15/h3-8,10H,9H2,1-
InchiKey: DBNDQWSTOSZFHI-UHFFFAOYSA-N
Formula: C15H15N
SMILES: CN(C)c1ccc2c(c1)Cc1ccccc1-2
Mol. weight [g/mol]: 209.29
CAS: 13261-62-6

Physical Properties

Property code	Value	Unit	Source
gf	474.79	kJ/mol	Joback Method
hf	258.71	kJ/mol	Joback Method
hfus	25.81	kJ/mol	Joback Method
hvap	57.44	kJ/mol	Joback Method
log10ws	-4.33		Crippen Method
logp	3.324		Crippen Method
mcvol	173.810	ml/mol	McGowan Method
pc	2684.64	kPa	Joback Method
tb	626.21	K	Joback Method
tc	860.53	K	Joback Method
tf	410.90	K	Joback Method
vc	0.651	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	438.14	J/mol×K	626.21	Joback Method
cpg	454.10	J/mol×K	665.26	Joback Method
cpg	468.84	J/mol×K	704.32	Joback Method
cpg	482.50	J/mol×K	743.37	Joback Method

cpg	495.20	J/mol×K	782.42	Joback Method
cpg	507.08	J/mol×K	821.48	Joback Method
cpg	518.27	J/mol×K	860.53	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	478.20	K	1.60	NIST Webbook

Sources

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=C13261626&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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