2,2-Diphenylcyclopropylmethyl dimethylamine

Inchi: InChI=1S/C18H21N/c1-19(2)14-17-13-18(17,15-9-5-3-6-10-15)16-11-7-4-8-12-16/h3-12,1
InchiKey: OTVLFDNVIUPTQP-UHFFFAOYSA-N
Formula: C18H21N
SMILES: CN(C)CC1CC1(c1ccccc1)c1ccccc1
Mol. weight [g/mol]: 251.37
CAS: 63968-76-3

Physical Properties

Property code	Value	Unit	Source
gf	483.83	kJ/mol	Joback Method
hf	193.44	kJ/mol	Joback Method
hfus	26.39	kJ/mol	Joback Method
hvap	60.71	kJ/mol	Joback Method
log10ws	-3.56		Crippen Method
logp	3.554		Crippen Method
mcvol	216.080	ml/mol	McGowan Method
pc	2175.46	kPa	Joback Method
tb	679.35	K	Joback Method
tc	921.07	K	Joback Method
tf	415.53	K	Joback Method
vc	0.799	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	601.34	J/mol×K	679.35	Joback Method
cpg	621.84	J/mol×K	719.64	Joback Method
cpg	641.04	J/mol×K	759.92	Joback Method
cpg	659.20	J/mol×K	800.21	Joback Method
cpg	676.57	J/mol×K	840.50	Joback Method
cpg	693.41	J/mol×K	880.79	Joback Method
cpg	709.99	J/mol×K	921.07	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=C63968763&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

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