4-[1-(4-Aminophenyl)-1-methylethyl]phenylamine

Other names: 4,4'-isopropylidenedianiline
Inchi: InChI=1S/C15H18N2/c1-15(2,11-3-7-13(16)8-4-11)12-5-9-14(17)10-6-12/h3-10H,16-17H
InchiKey: ZYEDGEXYGKWJPB-UHFFFAOYSA-N
Formula: C15H18N2
SMILES: CC(C)(c1ccc(N)cc1)c1ccc(N)cc1
Mol. weight [g/mol]: 226.32
CAS: 2479-47-2

Physical Properties

Property code	Value	Unit	Source
gf	416.72	kJ/mol	Joback Method
hf	156.02	kJ/mol	Joback Method
hfus	24.89	kJ/mol	Joback Method
hvap	74.85	kJ/mol	Joback Method
log10ws	-3.35		Crippen Method
logp	3.177		Crippen Method
mcvol	194.650	ml/mol	McGowan Method
pc	2790.61	kPa	Joback Method
tb	747.75	K	Joback Method
tc	1009.76	K	Joback Method
tf	505.63	K	Joback Method
vc	0.707	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	548.88	J/mol×K	747.75	Joback Method
cpg	564.64	J/mol×K	791.42	Joback Method
cpg	579.04	J/mol×K	835.09	Joback Method
cpg	592.22	J/mol×K	878.76	Joback Method
cpg	604.30	J/mol×K	922.43	Joback Method
cpg	615.42	J/mol×K	966.09	Joback Method
cpg	625.70	J/mol×K	1009.76	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2479472&Units=SI
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

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