Phenethylamine, p,«alpha»-dimethyl-

Other names:	2-Amino-1-(4-methylphenyl)propane
	2-Amino-1-(p-methylphenyl)propane
	Aptrol
	p-«alpha»-Dimethylphenethylamine
	p-Methylamphetamine
	1-p-Tolyl-2-propylamine
	4-Methylamphetamine
	1-(4-Methylphenyl)-2-propanamine
Inchi:	InChI=1S/C10H15N/c1-8-3-5-10(6-4-8)7-9(2)11/h3-6,9H,7,11H2,1-2H3
InchiKey:	ZDHZDWSHLNBTEB-UHFFFAOYSA-N
Formula:	C10H15N
SMILES:	Cc1ccc(CC(C)N)cc1
Mol. weight [g/mol]:	149.23
CAS:	64-11-9

Physical Properties

Property code	Value	Unit	Source
gf	200.11	kJ/mol	Joback Method
hf	3.84	kJ/mol	Joback Method
hfus	16.98	kJ/mol	Joback Method
hvap	51.05	kJ/mol	Joback Method
log10ws	-2.71		Crippen Method
logp	1.885		Crippen Method
mcvol	137.980	ml/mol	McGowan Method
pc	3096.73	kPa	Joback Method
tb	531.95	K	Joback Method
tc	753.77	K	Joback Method
tf	309.66	K	Joback Method
vc	0.510	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	316.49	J/mol×K	531.95	Joback Method

cpg	331.53	J/mol×K	568.92	Joback Method
cpg	345.68	J/mol×K	605.89	Joback Method
cpg	358.96	J/mol×K	642.86	Joback Method
cpg	371.42	J/mol×K	679.83	Joback Method
cpg	383.09	J/mol×K	716.80	Joback Method
cpg	394.01	J/mol×K	753.77	Joback Method

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=C64119&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

tc: Critical Temperature

tf: Normal melting (fusion) point

vc: Critical Volume