4-METHYLAMPHETAMINE

Other names:	1-(4-Methylphenyl)-2-propanamine
	1-p-Tolyl-2-propylamine
	2-Amino-1-(4-methylphenyl)propane
	2-Amino-1-(p-methylphenyl)propane
	4-Methylamphetamine
	Aptrol
	p-Methylamphetamine
	p-«alpha»-Dimethylphenethylamine
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]:	149.24

Physical Properties

Property code	Value	Unit	Source
af	0.4796		Cheméo Relay (1.0)
gf	200.11	kJ/mol	Joback Method
hf	-12.79	kJ/mol	Cheméo Relay (1.0)
hfus	16.98	kJ/mol	Joback Method
hvap	60.93	kJ/mol	Cheméo Relay (1.0)
ie	8.27	eV	Cheméo Relay (1.0)
log10ws	-1.80		Cheméo Relay (1.0)
logp	1.885		Crippen Method
mcvol	137.980	ml/mol	McGowan Method
pc	3096.73	kPa	Joback Method
tb	494.23	K	Cheméo Relay (1.0)
tc	697.44	K	Cheméo Relay (1.0)
tf	292.84	K	Cheméo Relay (1.0)
vc	0.497	m3/kmol	Cheméo Relay (1.0)

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
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C64119&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

af:	Acentric Factor
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
ie:	Ionization energy
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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