2-(p-Tolyl)ethylamine

Other names: Benzeneethanamine, 4-methyl-
p-methylphenethylamine
Inchi: InChI=1S/C9H13N/c1-8-2-4-9(5-3-8)6-7-10/h2-5H,6-7,10H2,1H3
InchiKey: VKJXAQYPOTYDLO-UHFFFAOYSA-N
Formula: C9H13N
SMILES: Cc1ccc(CCN)cc1
Mol. weight [g/mol]: 135.21
CAS: 3261-62-9

Physical Properties

Property code	Value	Unit	Source
gf	194.13	kJ/mol	Joback Method
hf	29.76	kJ/mol	Joback Method
hfus	17.92	kJ/mol	Joback Method
hvap	49.21	kJ/mol	Joback Method
log10ws	-2.18		Crippen Method
logp	1.496		Crippen Method
mcvol	123.890	ml/mol	McGowan Method
pc	3423.86	kPa	Joback Method
tb	487.20	K	NIST Webbook
tc	730.11	K	Joback Method
tf	313.39	K	Joback Method
vc	0.461	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	271.53	J/mol×K	509.51	Joback Method
cpg	285.22	J/mol×K	546.28	Joback Method
cpg	298.11	J/mol×K	583.04	Joback Method
cpg	310.23	J/mol×K	619.81	Joback Method
cpg	321.61	J/mol×K	656.58	Joback Method
cpg	332.28	J/mol×K	693.35	Joback Method
cpg	342.28	J/mol×K	730.11	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=C3261629&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