Benzenamine, 2-ethyl-6-methyl-

Other names:	2-Ethyl-6-methylaniline
	2-Ethyl-6-methylbenzenamine
	2-Methyl-6-ethylaniline
	6-Ethyl-2-methylaniline
	6-Ethyl-o-toluidine
	6-Ethyl-ortho-toluidine
	6-ethyl-2-toluidine
	Aniline, 2-methyl-6-ethyl-
	C 25702
	o-Toluidine, 6-ethyl-
Inchi:	InChI=1S/C9H13N/c1-3-8-6-4-5-7(2)9(8)10/h4-6H,3,10H2,1-2H3
InchiKey:	JJVKJJNCIILLRP-UHFFFAOYSA-N
Formula:	C9H13N
SMILES:	CCc1cccc(C)c1N
Mol. weight [g/mol]:	135.21
CAS:	24549-06-2

Physical Properties

Property code	Value	Unit	Source
gf	184.50	kJ/mol	Joback Method
hf	18.29	kJ/mol	Joback Method
hfus	17.53	kJ/mol	Joback Method
hvap	49.87	kJ/mol	Joback Method
log10ws	-2.38		Crippen Method
logp	2.140		Crippen Method
mcvol	123.890	ml/mol	McGowan Method
pc	3364.54	kPa	Joback Method
rinpol	1217.70		NIST Webbook
rinpol	1217.70		NIST Webbook
tb	504.20	K	NIST Webbook
tc	736.31	K	Joback Method
tf	325.91	K	Joback Method
vc	0.461	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	271.48	J/mol×K	514.49	Joback Method
cpg	284.80	J/mol×K	551.46	Joback Method
cpg	297.37	J/mol×K	588.43	Joback Method
cpg	309.24	J/mol×K	625.40	Joback Method
cpg	320.42	J/mol×K	662.37	Joback Method
cpg	330.93	J/mol×K	699.34	Joback Method
cpg	340.81	J/mol×K	736.31	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.48368e+01
Coeff. B	-4.32134e+03
Coeff. C	-8.13040e+01
Temperature range (K), min.	378.32
Temperature range (K), max.	534.97

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=C24549062&Units=SI

The Yaws Handbook of Vapor Pressure: https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

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
pvap:	Vapor pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume