6-Ethyl-2,4-xylidine

Inchi: InChI=1S/C10H15N/c1-4-9-6-7(2)5-8(3)10(9)11/h5-6H,4,11H2,1-3H3
InchiKey: VBOWSMQIENLDDN-UHFFFAOYSA-N
Formula: C10H15N
SMILES: CCc1cc(C)cc(C)c1N
Mol. weight [g/mol]: 149.23
CAS: 40813-98-7

Physical Properties

Property code	Value	Unit	Source
gf	183.29	kJ/mol	Joback Method
hf	-13.82	kJ/mol	Joback Method
hfus	19.73	kJ/mol	Joback Method
hvap	52.76	kJ/mol	Joback Method
log10ws	-2.86		Crippen Method
logp	2.448		Crippen Method
mcvol	137.980	ml/mol	McGowan Method
pc	2969.80	kPa	Joback Method
rinpol	1309.10		NIST Webbook
tb	542.35	K	Joback Method
tc	761.49	K	Joback Method
tf	349.70	K	Joback Method
vc	0.516	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	315.88	J/mol×K	542.35	Joback Method
cpg	329.86	J/mol×K	578.87	Joback Method
cpg	343.10	J/mol×K	615.40	Joback Method
cpg	355.64	J/mol×K	651.92	Joback Method
cpg	367.49	J/mol×K	688.45	Joback Method
cpg	378.68	J/mol×K	724.97	Joback Method
cpg	389.22	J/mol×K	761.49	Joback Method

Sources

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=C40813987&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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