N,n-diethyl-2,5-xylidine

Inchi: InChI=1S/C12H19N/c1-5-13(6-2)12-9-10(3)7-8-11(12)4/h7-9H,5-6H2,1-4H3
InchiKey: STOBVFLQDATSFJ-UHFFFAOYSA-N
Formula: C12H19N
SMILES: CCN(CC)c1cc(C)ccc1C
Mol. weight [g/mol]: 177.29
CAS: 3995-37-7

Physical Properties

Property code	Value	Unit	Source
gf	254.09	kJ/mol	Joback Method
hf	-9.89	kJ/mol	Joback Method
hfus	23.12	kJ/mol	Joback Method
hvap	47.95	kJ/mol	Joback Method
log10ws	-3.17		Crippen Method
logp	3.150		Crippen Method
mcvol	166.160	ml/mol	McGowan Method
pc	2331.52	kPa	Joback Method
tb	523.04	K	Joback Method
tc	721.98	K	Joback Method
tf	308.93	K	Joback Method
vc	0.618	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	381.54	J/mol×K	523.04	Joback Method
cpg	398.35	J/mol×K	556.20	Joback Method
cpg	414.29	J/mol×K	589.35	Joback Method
cpg	429.38	J/mol×K	622.51	Joback Method
cpg	443.67	J/mol×K	655.67	Joback Method
cpg	457.17	J/mol×K	688.82	Joback Method
cpg	469.93	J/mol×K	721.98	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3995377&Units=SI
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

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