N-ETHYLACETANILIDE

Other names:	Acetanilide, N-ethyl-
	Acetethylanilide
	Ethylacetanilide
	Mannol
	N-Ethylacetanilide
	N-Ethyl-N-phenylacetamide
Inchi:	InChI=1S/C10H13NO/c1-3-11(9(2)12)10-7-5-4-6-8-10/h4-8H,3H2,1-2H3
InchiKey:	FSSVIYSWRLKICW-UHFFFAOYSA-N
Formula:	C10H13NO
SMILES:	CCN(C(C)=O)c1ccccc1
Mol. weight [g/mol]:	163.22

Physical Properties

Property code	Value	Unit	Source
hf	-137.12	kJ/mol	Cheméo Relay (1.0)
hfus	20.32	kJ/mol	Joback Method
hvap	68.39	kJ/mol	Cheméo Relay (1.0)
ie	8.35	eV	Cheméo Relay (1.0)
log10ws	-1.47		Cheméo Relay (1.0)
logp	2.059		Crippen Method
mcvol	139.550	ml/mol	McGowan Method
tb	533.25	K	Cheméo Relay (1.0)
tf	319.61	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	310.15	J/mol×K	521.19	Joback Method
cpg	324.85	J/mol×K	556.49	Joback Method
cpg	338.60	J/mol×K	591.79	Joback Method
cpg	351.47	J/mol×K	627.09	Joback Method
cpg	363.49	J/mol×K	662.39	Joback Method
cpg	374.69	J/mol×K	697.69	Joback Method
cpg	385.14	J/mol×K	732.99	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
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=C529657&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
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
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point