Benzenesulfonamide, N-ethyl-4-methyl-

Other names:	p-Toluenesulfonamide, N-ethyl-
	p-Tolueneethylsulfonamide
	p-Toluenesulfonyl-N-ethylamide
	N-Ethyl-p-methylbenzenesulfonamide
	N-Ethyl-p-toluenesulfonamide
	N-Ethyl-p-tolylsulfonamide
	N-Tosylethylamine
	Santicizer 3
	N-Ethyl-4-methyl-benzenesulfonamide
	Ethyl toluenesulfonamide
	Unipex 108
	Uniplex 108
	4-Toluenesulfonamide, N-ethyl-
	N-Ethyl-4-toluenesulfonamide
	NSC 68803
	N-ethyltoluene-4-sulphonamide
Inchi:	InChI=1S/C9H13NO2S/c1-3-10-13(11,12)9-6-4-8(2)5-7-9/h4-7,10H,3H2,1-2H3
InchiKey:	OHPZPBNDOVQJMH-UHFFFAOYSA-N
Formula:	C9H13NO2S
SMILES:	CCNS(=O)(=O)c1ccc(C)cc1
Mol. weight [g/mol]:	199.27
CAS:	80-39-7

Physical Properties

Property code	Value	Unit	Source
gf	-251.47	kJ/mol	Joback Method
hf	-403.91	kJ/mol	Joback Method
hfus	29.20	kJ/mol	Joback Method
hvap	63.64	kJ/mol	Joback Method
log10ws	-2.24		Crippen Method
logp	1.293		Crippen Method
mcvol	151.980	ml/mol	McGowan Method
pc	3916.03	kPa	Joback Method
rinpol	289.90		NIST Webbook
tb	534.93	K	Joback Method
tc	738.46	K	Joback Method
tf	321.35	K	Joback Method

vc	0.593	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	339.78	J/mol×K	534.93	Joback Method
cpg	353.84	J/mol×K	568.85	Joback Method
cpg	367.12	J/mol×K	602.77	Joback Method
cpg	379.63	J/mol×K	636.69	Joback Method
cpg	391.39	J/mol×K	670.61	Joback Method
cpg	402.39	J/mol×K	704.53	Joback Method
cpg	412.66	J/mol×K	738.46	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C80397&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
rinpol: Non-polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature

tf: Normal melting (fusion) point

vc: Critical Volume