

Ethanol, 2-chloro-, 4-methylbenzenesulfonate

Other names:	Ethanol, 2-chloro-, p-toluenesulfonate «beta»-Chloroethyl p-toluenesulfonate p-Toluenesulfonic acid, 2-chloroethyl ester 2-(p-Toluenesulfonyloxy)ethyl chloride 2-Chloroethanol p-toluenesulfonate 2-Chloroethyl p-toluenesulfonate 2-Chloroethyl p-tosylate 2-Chloroethyl tosylate 2-Chloroethyl para-toluenesulfonate «beta»-Chloroethylester kyseliny p-toluensulfonove p-Toluenesulfonic acid, «beta»-chloroethyl ester 2-Chlorethylester kyseliny p-toluensulfonove 2-Tosyloxyethyl chloride Ethanol, 2-chloro-, 1-(4-methylbenzenesulfonate) NSC 6079 2-chloroethyl toluene-4-sulphonate
Inchi:	InChI=1S/C9H11ClO3S/c1-8-2-4-9(5-3-8)14(11,12)13-7-6-10/h2-5H,6-7H2,1H3
InchiKey:	ZXNMIUJDTOMBPV-UHFFFAOYSA-N
Formula:	C9H11ClO3S
SMILES:	Cc1ccc(S(=O)(=O)OCCCl)cc1
Mol. weight [g/mol]:	234.70
CAS:	80-41-1

Physical Properties

Property code	Value	Unit	Source
gf	-457.79	kJ/mol	Joback Method
hf	-605.34	kJ/mol	Joback Method
hfus	29.48	kJ/mol	Joback Method
hvap	64.00	kJ/mol	Joback Method
log10ws	-2.29		Crippen Method
logp	1.939		Crippen Method
mcvol	160.110	ml/mol	McGowan Method
pc	3607.21	kPa	Joback Method
tb	544.61	K	Joback Method
tc	750.19	K	Joback Method
tf	320.84	K	Joback Method
vc	0.625	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	343.44	J/mol×K	544.61	Joback Method
cpg	356.40	J/mol×K	578.87	Joback Method
cpg	368.66	J/mol×K	613.14	Joback Method
cpg	380.23	J/mol×K	647.40	Joback Method
cpg	391.10	J/mol×K	681.66	Joback Method
cpg	401.27	J/mol×K	715.93	Joback Method
cpg	410.73	J/mol×K	750.19	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C80411&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

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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