

Benzenesulfonyl chloride, 2,4,6-trimethyl-

Other names:	2-Mesitylenesulfonyl chloride Mesitylenesulfonyl chloride Mesitylsulfonyl chloride 2,4,6-Trimethylbenzenesulfonyl chloride mesitylene-2-sulphonyl chloride
Inchi:	InChI=1S/C9H11ClO2S/c1-6-4-7(2)9(8(3)5-6)13(10,11)12/h4-5H,1-3H3
InchiKey:	PVJZBZSCGJAWNG-UHFFFAOYSA-N
Formula:	C9H11ClO2S
SMILES:	<chem>Cc1cc(C)c(S(=O)(=O)Cl)c(C)c1</chem>
Mol. weight [g/mol]:	218.70
CAS:	773-64-8

Physical Properties

Property code	Value	Unit	Source
gf	-372.05	kJ/mol	Joback Method
hf	-496.06	kJ/mol	Joback Method
hfus	27.52	kJ/mol	Joback Method
hvap	62.91	kJ/mol	Joback Method
log10ws	-3.32		Crippen Method
logp	2.539		Crippen Method
mcvol	154.240	ml/mol	McGowan Method
pc	3551.53	kPa	Joback Method
tb	532.15	K	Joback Method
tc	741.98	K	Joback Method
tf	323.65	K	Joback Method
vc	0.607	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	319.27	J/molxK	532.15	Joback Method
cpg	331.84	J/molxK	567.12	Joback Method
cpg	343.77	J/molxK	602.09	Joback Method
cpg	355.05	J/molxK	637.06	Joback Method

cpg	365.68	J/mol×K	672.04	Joback Method
cpg	375.67	J/mol×K	707.01	Joback Method
cpg	385.00	J/mol×K	741.98	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C773648&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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

Latest version available from:

<https://www.chemeo.com/cid/28-480-8/Benzenesulfonyl-chloride-2-4-6-trimethyl.pdf>

Generated by Cheméo on 2024-04-20 13:55:16.282533032 +0000 UTC m=+15910565.203110353.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.