

m-Cresyl acetate

Other names:	Acetic acid, m-tolyl ester
	m-Acetoxytoluene
	m-Cresol acetate
	m-Methylphenyl acetate
	m-Tolyl acetate
	Cresatin
	Cresatin-Sulzberger
	Kresatin
	Metacresol acetate
	3-Methylphenyl acetate
	3-Methylphenyl ester of acetic acid
	Acetic acid m-cresol ester
	Acetylmetacresol
	m-Cresol acetic acid ester
	Acetic acid, m-methylphenyl ester
	Acetic acid, 3-methylphenyl ester
	3-Acetoxytoluene
	3-Methylphenol acetate
	NSC 4795
	3-Tolyl acetate
Inchi:	InChI=1S/C9H10O2/c1-7-4-3-5-9(6-7)11-8(2)10/h3-6H,1-2H3
InchiKey:	OTGAHJPFNKQGAE-UHFFFAOYSA-N
Formula:	C9H10O2
SMILES:	CC(=O)Oc1cccc(C)c1
Mol. weight [g/mol]:	150.17
CAS:	122-46-3

Physical Properties

Property code	Value	Unit	Source
gf	-106.24	kJ/mol	Joback Method
hf	-248.83	kJ/mol	Joback Method
hfus	15.50	kJ/mol	Joback Method
hvap	47.72	kJ/mol	Joback Method
ie	9.00 ± 0.20	eV	NIST Webbook
log10ws	-2.26		Crippen Method
logp	1.920		Crippen Method
mcvol	121.350	ml/mol	McGowan Method

pc	3380.21	kPa	Joback Method
rinpol	1144.00		NIST Webbook
rinpol	1136.00		NIST Webbook
ripol	1756.00		NIST Webbook
tb	485.20	K	NIST Webbook
tc	730.64	K	Joback Method
tf	302.29	K	Joback Method
vc	0.456	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	311.06	J/mol×K	694.41	Joback Method
cpg	320.16	J/mol×K	730.64	Joback Method
cpg	256.24	J/mol×K	513.27	Joback Method
cpg	268.48	J/mol×K	549.50	Joback Method
cpg	280.07	J/mol×K	585.73	Joback Method
cpg	291.03	J/mol×K	621.95	Joback Method
cpg	301.35	J/mol×K	658.18	Joback Method
dvisc	0.0002227	Pa×s	513.27	Joback Method
dvisc	0.0002765	Pa×s	478.11	Joback Method
dvisc	0.0017319	Pa×s	302.29	Joback Method
dvisc	0.0010297	Pa×s	337.45	Joback Method
dvisc	0.0006754	Pa×s	372.62	Joback Method
dvisc	0.0004764	Pa×s	407.78	Joback Method
dvisc	0.0003552	Pa×s	442.94	Joback Method
hsubt	60.70	kJ/mol	295.50	NIST Webbook
hvapt	55.70	kJ/mol	432.50	NIST Webbook

Sources

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=C122463&Units=SI>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method:

https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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