

Benzoyl chloride, 4-methoxy-

Other names:	p-Anisoyl chloride p-Methoxybenzoic acid chloride p-Methoxybenzoyl chloride Anisoyl chloride Benzoyl chloride, p-methoxy- 4-Methoxybenzoic acid chloride 4-Methoxybenzoyl chloride 4-Anisoyl chloride UN 1729 NSC 86125 Benzoyl chloride, methoxy- Methoxybenzoyl chloride
Inchi:	InChI=1S/C8H7ClO2/c1-11-7-4-2-6(3-5-7)8(9)10/h2-5H,1H3
InchiKey:	MXMOTZIXVICDSD-UHFFFAOYSA-N
Formula:	C8H7ClO2
SMILES:	COc1ccc(C(=O)Cl)cc1
Mol. weight [g/mol]:	170.59
CAS:	100-07-2

Physical Properties

Property code	Value	Unit	Source
gf	-126.59	kJ/mol	Joback Method
hf	-261.80 ± 5.10	kJ/mol	NIST Webbook
hfl	-335.90 ± 2.90	kJ/mol	NIST Webbook
hfus	17.11	kJ/mol	Joback Method
hvap	74.10 ± 4.20	kJ/mol	NIST Webbook
ie	8.87 ± 0.05	eV	NIST Webbook
log10ws	-2.48		Crippen Method
logp	2.074		Crippen Method
mcvol	119.500	ml/mol	McGowan Method
pc	3624.61	kPa	Joback Method
rinpol	1400.00		NIST Webbook
tb	417.00 ± 3.00	K	NIST Webbook
tc	753.98	K	Joback Method
tf	294.00 ± 3.00	K	NIST Webbook
vc	0.449	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	237.52	J/mol×K	527.82	Joback Method
cpg	247.94	J/mol×K	565.51	Joback Method
cpg	257.76	J/mol×K	603.21	Joback Method
cpg	266.97	J/mol×K	640.90	Joback Method
cpg	275.58	J/mol×K	678.59	Joback Method
cpg	283.61	J/mol×K	716.28	Joback Method
cpg	291.07	J/mol×K	753.98	Joback Method
dvisc	0.0017026	Pa×s	320.94	Joback Method
dvisc	0.0010543	Pa×s	355.42	Joback Method
dvisc	0.0007106	Pa×s	389.90	Joback Method
dvisc	0.0005107	Pa×s	424.38	Joback Method
dvisc	0.0003857	Pa×s	458.86	Joback Method
dvisc	0.0003030	Pa×s	493.34	Joback Method
dvisc	0.0002456	Pa×s	527.82	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	418.20	K	1.90	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=C100072&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
hfl:	Liquid phase 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
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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