

# 2,4,6-Triisopropylbenzoyl chloride

<b>Other names:</b>	Benzoyl chloride, 2,4,6-tris(1-methylethyl)-
<b>Inchi:</b>	InChI=1S/C16H23ClO/c1-9(2)12-7-13(10(3)4)15(16(17)18)14(8-12)11(5)6/h7-11H,1-6H3
<b>InchiKey:</b>	OSKNTKJPGKHDHV-UHFFFAOYSA-N
<b>Formula:</b>	C16H23ClO
<b>SMILES:</b>	CC(C)c1cc(C(C)C)c(C(=O)Cl)c(C(C)C)c1
<b>Mol. weight [g/mol]:</b>	266.81
<b>CAS:</b>	57199-00-5

## Physical Properties

Property code	Value	Unit	Source
gf	19.19	kJ/mol	Joback Method
hf	-315.61	kJ/mol	Joback Method
hfus	25.30	kJ/mol	Joback Method
hvap	65.44	kJ/mol	Joback Method
log10ws	-5.92		Crippen Method
logp	5.436		Crippen Method
mcvol	226.350	ml/mol	McGowan Method
pc	1710.36	kPa	Joback Method
tb	697.08	K	Joback Method
tc	910.67	K	Joback Method
tf	368.91	K	Joback Method
vc	0.861	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	602.18	J/molxK	697.08	Joback Method
cpg	619.13	J/molxK	732.68	Joback Method
cpg	635.06	J/molxK	768.28	Joback Method
cpg	650.00	J/molxK	803.87	Joback Method
cpg	663.98	J/molxK	839.47	Joback Method
cpg	677.03	J/molxK	875.07	Joback Method
cpg	689.20	J/molxK	910.67	Joback Method
dvisc	0.0019303	Paxs	368.91	Joback Method

dvisc	0.0008851	Paxs	423.61	Joback Method
dvisc	0.0004851	Paxs	478.30	Joback Method
dvisc	0.0003008	Paxs	533.00	Joback Method
dvisc	0.0002039	Paxs	587.69	Joback Method
dvisc	0.0001476	Paxs	642.38	Joback Method
dvisc	0.0001125	Paxs	697.08	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C57199005&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C57199005&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/10-156-7/2-4-6-Triisopropylbenzoyl-chloride.pdf>

Generated by Cheméo on 2024-04-20 06:20:45.323514029 +0000 UTC m=+15883294.244091391.

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