

4-Chlorobenzoic acid, benzyl ester

Other names:	4-Chlorobenzoic acid, benzyl ester Benzyl 4-chlorobenzoate
Inchi:	InChI=1S/C14H11ClO2/c15-13-8-6-12(7-9-13)14(16)17-10-11-4-2-1-3-5-11/h1-9H,10H2
InchiKey:	VBIOKGVOQMIBHO-UHFFFAOYSA-N
Formula:	C14H11ClO2
SMILES:	O=C(OCc1ccccc1)c1ccc(Cl)cc1
Mol. weight [g/mol]:	246.69

Physical Properties

Property code	Value	Unit	Source
af	0.5844		Cheméo Relay (1.0)
hf	-185.33	kJ/mol	Cheméo Relay (1.0)
hfus	26.69	kJ/mol	Joback Method
hvap	89.51	kJ/mol	Cheméo Relay (1.0)
ie	8.88	eV	Cheméo Relay (1.0)
log10ws	-4.54		Cheméo Relay (1.0)
logp	3.697		Crippen Method
mcvol	180.280	ml/mol	McGowan Method
pc	2752.67	kPa	Joback Method
rinpol	1903.00		NIST Webbook
rinpol	1899.00		NIST Webbook
rinpol	1899.00		NIST Webbook
rinpol	1914.00		NIST Webbook
rinpol	1928.00		NIST Webbook
rinpol	1944.00		NIST Webbook
rinpol	1892.00		NIST Webbook
rinpol	1866.00		NIST Webbook
rinpol	1899.00		NIST Webbook
rinpol	1928.00		NIST Webbook
rinpol	1892.00		NIST Webbook
rinpol	1881.00		NIST Webbook
ripol	2801.00		NIST Webbook
ripol	2787.00		NIST Webbook
ripol	2832.00		NIST Webbook
ripol	2801.00		NIST Webbook
ripol	2740.00		NIST Webbook
ripol	2772.00		NIST Webbook

ripol	2772.00		NIST Webbook
tb	606.34	K	Cheméo Relay (1.0)
tc	859.08	K	Cheméo Relay (1.0)
tf	306.26	K	Cheméo Relay (1.0)
vc	0.654	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	439.76	J/mol×K	691.78	Joback Method
cpg	453.56	J/mol×K	732.82	Joback Method
cpg	466.19	J/mol×K	773.85	Joback Method
cpg	477.72	J/mol×K	814.89	Joback Method
cpg	488.18	J/mol×K	855.92	Joback Method
cpg	497.64	J/mol×K	896.96	Joback Method
cpg	506.14	J/mol×K	938.00	Joback Method
dvisc	0.0011566	Pa×s	414.98	Joback Method
dvisc	0.0006831	Pa×s	461.11	Joback Method
dvisc	0.0004441	Pa×s	507.25	Joback Method
dvisc	0.0003102	Pa×s	553.38	Joback Method
dvisc	0.0002289	Pa×s	599.51	Joback Method
dvisc	0.0001765	Pa×s	645.65	Joback Method
dvisc	0.0001408	Pa×s	691.78	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C67483732&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

Legend

af:	Acentric Factor
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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