

Hexyl 3-chlorobenzoate

Other names:	Benzoic acid, 3-chloro, hexyl ester
Inchi:	InChI=1S/C13H17ClO2/c1-2-3-4-5-9-16-13(15)11-7-6-8-12(14)10-11/h6-8,10H,2-5,9H2,1
InchiKey:	WIOHDOZCKINPRO-UHFFFAOYSA-N
Formula:	C13H17ClO2
SMILES:	CCCCCCOC(=O)c1cccc(Cl)c1
Mol. weight [g/mol]:	240.73

Physical Properties

Property code	Value	Unit	Source
gf	-84.49	kJ/mol	Joback Method
hf	-347.13	kJ/mol	Joback Method
hfus	30.06	kJ/mol	Joback Method
hvap	61.01	kJ/mol	Joback Method
log10ws	-4.49		Crippen Method
logp	4.077		Crippen Method
mcvol	189.950	ml/mol	McGowan Method
pc	2181.56	kPa	Joback Method
rinpol	1714.00		NIST Webbook
rinpol	1756.00		NIST Webbook
rinpol	1712.00		NIST Webbook
rinpol	1731.00		NIST Webbook
rinpol	1756.00		NIST Webbook
rinpol	1714.00		NIST Webbook
rinpol	1732.00		NIST Webbook
rinpol	1722.00		NIST Webbook
rinpol	1723.00		NIST Webbook
ripol	2244.00		NIST Webbook
ripol	2251.00		NIST Webbook
ripol	2263.00		NIST Webbook
ripol	2264.00		NIST Webbook
ripol	2251.00		NIST Webbook
ripol	2225.00		NIST Webbook
ripol	2264.00		NIST Webbook
ripol	2295.00		NIST Webbook
tb	642.22	K	Joback Method
tc	849.84	K	Joback Method
tf	377.29	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	471.36	J/molxK	642.22	Joback Method
cpg	485.98	J/molxK	676.82	Joback Method
cpg	499.75	J/molxK	711.43	Joback Method
cpg	512.68	J/molxK	746.03	Joback Method
cpg	524.81	J/molxK	780.63	Joback Method
cpg	536.14	J/molxK	815.23	Joback Method
cpg	546.71	J/molxK	849.84	Joback Method
dvisc	0.0014793	Paxs	377.29	Joback Method
dvisc	0.0008357	Paxs	421.45	Joback Method
dvisc	0.0005262	Paxs	465.60	Joback Method
dvisc	0.0003589	Paxs	509.75	Joback Method
dvisc	0.0002602	Paxs	553.91	Joback Method
dvisc	0.0001978	Paxs	598.07	Joback Method
dvisc	0.0001562	Paxs	642.22	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=U373563&Units=SI>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

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

h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀w_s:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
p_c:	Critical Pressure
r_{inpol}:	Non-polar retention indices
r_{ipol}:	Polar retention indices
t_b:	Normal Boiling Point Temperature
t_c:	Critical Temperature
t_f:	Normal melting (fusion) point
v_c:	Critical Volume

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