

Ethyl 3-hydroxybenzoate

Other names:	3-hydroxybenzoic acid ethyl ester benzoic acid, 3-hydroxy-, ethyl ester benzoic acid, m-hydroxy-, ethyl ester ethyl m-hydroxybenzoate m-Hydroxybenzoic acid ethyl ester m-ethoxycarbonylphenol
Inchi:	InChI=1S/C9H10O3/c1-2-12-9(11)7-4-3-5-8(10)6-7/h3-6,10H,2H2,1H3
InchiKey:	MWSMNBYIEBRXAL-UHFFFAOYSA-N
Formula:	C9H10O3
SMILES:	CCOC(=O)c1cccc(O)c1
Mol. weight [g/mol]:	166.17
CAS:	7781-98-8

Physical Properties

Property code	Value	Unit	Source
gf	-251.23	kJ/mol	Joback Method
hf	-414.67	kJ/mol	Joback Method
hfus	21.68	kJ/mol	Joback Method
hvap	60.07	kJ/mol	Joback Method
log10ws	-1.68		Crippen Method
logp	1.569		Crippen Method
mcvol	127.220	ml/mol	McGowan Method
pc	4130.29	kPa	Joback Method
tb	568.20	K	NIST Webbook
tc	816.64	K	Joback Method
tf	401.49	K	Joback Method
vc	0.421	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	361.35	J/mol×K	816.64	Joback Method
cpg	353.29	J/mol×K	778.68	Joback Method
cpg	344.71	J/mol×K	740.73	Joback Method

cpg	335.56	J/mol×K	702.77	Joback Method
cpg	325.77	J/mol×K	664.82	Joback Method
cpg	315.28	J/mol×K	626.86	Joback Method
cpg	304.03	J/mol×K	588.91	Joback Method
dvisc	0.0010100	Pa×s	401.49	Joback Method
dvisc	0.0000400	Pa×s	588.91	Joback Method
dvisc	0.0000590	Pa×s	557.67	Joback Method
dvisc	0.0000909	Pa×s	526.44	Joback Method
dvisc	0.0001481	Pa×s	495.20	Joback Method
dvisc	0.0002577	Pa×s	463.96	Joback Method
dvisc	0.0004856	Pa×s	432.73	Joback Method
hvapt	78.40	kJ/mol	360.00	Gas-phase enthalpies of formation of ethyl hydroxybenzoates: An experimental and theoretical approach

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	460.70	K	4.10	NIST Webbook
tbrp	484.20	K	8.70	NIST Webbook

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C7781988&Units=SI>

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

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

Gas-phase enthalpies of formation of ethyl hydroxybenzoates: An experimental and theoretical approach: <https://www.doi.org/10.1016/j.jct.2017.09.007>

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

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
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/67-514-7/Ethyl-3-hydroxybenzoate.pdf>

Generated by Cheméo on 2025-12-22 01:32:05.425420717 +0000 UTC m=+6115322.955461382.

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