

Benzoic acid, 4-hydroxy-3-methoxy-, ethyl ester

Other names:	Vanillic acid, ethyl ester Ethyl vanillate 4-Hydroxy-3-methoxybenzoic acid ethyl ester Ethyl 4-hydroxy-3-methoxybenzoate m-Anisic acid, 4-hydroxy-, ethyl ester 3-Methoxy-4-hydroxybenzoic acid, ethyl ester
Inchi:	InChI=1S/C10H12O4/c1-3-14-10(12)7-4-5-8(11)9(6-7)13-2/h4-6,11H,3H2,1-2H3
InchiKey:	MWAYRGBWOVHDDZ-UHFFFAOYSA-N
Formula:	C10H12O4
SMILES:	CCOC(=O)c1ccc(O)c(OC)c1
Mol. weight [g/mol]:	196.20
CAS:	617-05-0

Physical Properties

Property code	Value	Unit	Source
gf	-357.44	kJ/mol	Joback Method
hf	-579.00	kJ/mol	Joback Method
hfus	25.07	kJ/mol	Joback Method
hvap	65.37	kJ/mol	Joback Method
log10ws	-1.80		Crippen Method
logp	1.577		Crippen Method
mcvol	147.180	ml/mol	McGowan Method
pc	3526.27	kPa	Joback Method
rinpol	1574.00		NIST Webbook
rinpol	1589.00		NIST Webbook
rinpol	1560.00		NIST Webbook
rinpol	1579.00		NIST Webbook
rinpol	1579.00		NIST Webbook
rinpol	1574.00		NIST Webbook
rinpol	1589.00		NIST Webbook
rinpol	1570.00		NIST Webbook
rinpol	1582.00		NIST Webbook
rinpol	1574.00		NIST Webbook
rinpol	1560.00		NIST Webbook
rinpol	1589.00		NIST Webbook
ripol	2653.00		NIST Webbook
ripol	2676.00		NIST Webbook

ripol	2612.00		NIST Webbook
ripol	2658.00		NIST Webbook
ripol	2661.00		NIST Webbook
ripol	2614.00		NIST Webbook
ripol	2654.00		NIST Webbook
ripol	2612.00		NIST Webbook
ripol	2654.00		NIST Webbook
ripol	2658.00		NIST Webbook
ripol	2623.00		NIST Webbook
ripol	2616.00		NIST Webbook
ripol	2668.00		NIST Webbook
ripol	2676.00		NIST Webbook
ripol	2653.00		NIST Webbook
ripol	2676.00		NIST Webbook
ripol	2676.00		NIST Webbook
ripol	2615.00		NIST Webbook
ripol	2654.00		NIST Webbook
ripol	2665.00		NIST Webbook
tb	639.19	K	Joback Method
tc	860.68	K	Joback Method
tf	447.51	K	Joback Method
vc	0.495	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	372.77	J/molxK	639.19	Joback Method
cpg	384.49	J/molxK	676.10	Joback Method
cpg	395.53	J/molxK	713.02	Joback Method
cpg	405.91	J/molxK	749.93	Joback Method
cpg	415.69	J/molxK	786.85	Joback Method
cpg	424.90	J/molxK	823.76	Joback Method
cpg	433.57	J/molxK	860.68	Joback Method
dvisc	0.0003718	Paxs	447.51	Joback Method
dvisc	0.0001978	Paxs	479.46	Joback Method
dvisc	0.0001139	Paxs	511.40	Joback Method
dvisc	0.0000700	Paxs	543.35	Joback Method
dvisc	0.0000454	Paxs	575.30	Joback Method
dvisc	0.0000308	Paxs	607.24	Joback Method
dvisc	0.0000217	Paxs	639.19	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C617050&Units=SI

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
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

Latest version available from:

<https://www.chemeo.com/cid/36-166-8/Benzoic-acid-4-hydroxy-3-methoxy-ethyl-ester.pdf>

Generated by Cheméo on 2024-04-17 01:56:27.257258835 +0000 UTC m=+15608236.177836157.

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