2'-Carboxy-2-hydroxy-4-methoxybenzophenone

Other names: Benzoic acid, 2-(2-hydroxy-4-methoxybenzoyl)-
o-(2-Hydroxy-p-anisoyl)benzoic acid
o-(2-Hydroxy-4-methoxybenzoyl)benzoic acid
Benzoic acid, o-(2-hydroxy-p-anisoyl)-
Benzoic acid, o-(2-hydroxy-4-methoxybenzoyl)-
Cyasorb
Cyasorb UV 207
2-(2-Hydroxy-4-methoxybenzoyl)benzoic acid
2'-Carboxy-2-hydroxy-4-methoxybenzophenone(o-(2-hydroxy-p-anisoyl)benzoic acid)

Inchi: InChI=1S/C15H12O5/c1-20-9-6-7-12(13(16)8-9)14(17)10-4-2-3-5-11(10)15(18)19/h2-8,1

InchiKey: JLZIIHMTTRXXIN-UHFFFAOYSA-N

Formula: C15H12O5

SMILES: COc1ccc(C(=O)c2ccccc2C(=O)O)c(O)c1

Mol. weight [g/mol]: 272.25

CAS: 4756-45-0

Physical Properties

Property code	Value	Unit	Source
gf	-373.30	kJ/mol	Joback Method
hf	-589.73	kJ/mol	Joback Method
hfus	36.17	kJ/mol	Joback Method
hvap	100.45	kJ/mol	Joback Method
log10ws	-3.16		Crippen Method
logp	2.330		Crippen Method
mcvol	195.440	ml/mol	McGowan Method
pc	3560.02	kPa	Joback Method
tb	908.88	K	Joback Method
tc	1143.64	K	Joback Method
tf	631.32	K	Joback Method
vc	0.674	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source

cpg	566.34	J/mol×K	908.88	Joback Method
cpg	609.31	J/mol×K	1104.51	Joback Method
cpg	601.48	J/mol×K	1065.39	Joback Method
cpg	593.35	J/mol×K	1026.26	Joback Method
cpg	584.85	J/mol×K	987.13	Joback Method
cpg	575.87	J/mol×K	948.01	Joback Method
cpg	616.93	J/mol×K	1143.64	Joback Method
dvisc	0.0000009	Pa×s	908.88	Joback Method
dvisc	0.0000013	Pa×s	862.62	Joback Method
dvisc	0.0000020	Pa×s	816.36	Joback Method
dvisc	0.0000032	Pa×s	770.10	Joback Method
dvisc	0.0000056	Pa×s	723.84	Joback Method
dvisc	0.0000103	Pa×s	677.58	Joback Method
dvisc	0.0000209	Pa×s	631.32	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=C4756450&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point

vc: Critical Volume