4-(Trimethylsilyl)benzoic acid

Other names: Benzoic acid, p-(trimethylsilyl)-,
Inchi: InChI=1S/C10H14O2Si/c1-13(2,3)9-6-4-8(5-7-9)10(11)12/h4-7H,1-3H3,(H,11,12)
InchiKey: GKAWVRLBRQRXAG-UHFFFAOYSA-N
Formula: C10H14O2Si
SMILES: C[Si](C)(C)c1ccc(C(=O)O)cc1
Mol. weight [g/mol]: 194.31

Physical Properties

Property code	Value	Unit	Source
af	0.6867		Cheméo Relay (1.0)
gf	-152.23	kJ/mol	Cheméo Relay (1.0, beta)
hf	-481.34	kJ/mol	Cheméo Relay (1.0)
hvap	90.53	kJ/mol	Cheméo Relay (1.0)
ie	9.15	eV	Cheméo Relay (1.0)
log10ws	-3.24		Cheméo Relay (1.0)
logp	1.930		Crippen Method
pc	2329.68	kPa	Cheméo Relay (1.0, beta)
tb	544.55	K	Cheméo Relay (1.0)
tc	772.53	K	Cheméo Relay (1.0)
tf	447.47	K	Cheméo Relay (1.0)
vc	0.566	m3/kmol	Cheméo Relay (1.0)

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C15290296&Units=SI
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
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation 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
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume