Parbenate

Other names:	Benzoic acid, 4-(dimethylamino)-, ethyl ester
	Benzoic acid, p-(dimethylamino)-, ethyl ester
	Ethyl p-dimethylaminobenzoate
	Ethyl 4-(dimethylamino)benzoate
	N,N-Dimethylbenzocaine
	Ethyl-4-(N,N-dimethylamino)benzoate
	Quantacure EPD
	p-Dimethylaminobenzoic acid ethyl ester
	Speedcure EDB
	Kayacure EPA
	Quantacure EPD (Ethyl 4-dimethylamino benzoate)
Inchi:	InChI=1S/C11H15NO2/c1-4-14-11(13)9-5-7-10(8-6-9)12(2)3/h5-8H,4H2,1-3H3
InchiKey:	FZUGPQWGEGAKET-UHFFFAOYSA-N
Formula:	C11H15NO2
SMILES:	CCOC(=O)c1ccc(N(C)C)cc1
Mol. weight [g/mol]:	193.24
CAS:	10287-53-3

Physical Properties

Property code	Value	Unit	Source
gf	21.38	kJ/mol	Joback Method
hf	-222.58	kJ/mol	Joback Method
hfus	23.71	kJ/mol	Joback Method
hvap	54.22	kJ/mol	Joback Method
log10ws	-2.04		Crippen Method
logp	1.929		Crippen Method
mcvol	159.510	ml/mol	McGowan Method
pc	2729.71	kPa	Joback Method
rinpol	1711.00		NIST Webbook
rinpol	1711.00		NIST Webbook
tb	571.47	K	Joback Method
tc	778.84	K	Joback Method
tf	357.30	K	Joback Method
vc	0.586	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	381.59	J/mol×K	571.47	Joback Method
cpg	396.33	J/mol×K	606.03	Joback Method
cpg	410.24	J/mol×K	640.59	Joback Method
cpg	423.33	J/mol×K	675.15	Joback Method
cpg	435.62	J/mol×K	709.72	Joback Method
cpg	447.15	J/mol×K	744.28	Joback Method
cpg	457.93	J/mol×K	778.84	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C10287533&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
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

Legend

cpg: Ideal gas heat capacity
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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume