cis-p-Menth-2,8-dienal

Inchi: InChI=1S/C10H14O/c1-8(2)10-5-3-9(7-11)4-6-10/h3,5,7,9-10H,1,4,6H2,2H3
InchiKey: SEMSFPYBEMQZDP-UHFFFAOYSA-N
Formula: C10H14O
SMILES: C=C(C)C1C=CC(C=O)CC1
Mol. weight [g/mol]: 150.22

Physical Properties

Property code	Value	Unit	Source
gf	59.79	kJ/mol	Joback Method
hf	-127.91	kJ/mol	Joback Method
hfus	15.48	kJ/mol	Joback Method
hvap	44.40	kJ/mol	Joback Method
log10ws	-2.41		Crippen Method
logp	2.344		Crippen Method
mcvol	133.870	ml/mol	McGowan Method
pc	2925.00	kPa	Joback Method
rinpol	1143.00		NIST Webbook
tb	487.46	K	Joback Method
tc	699.76	K	Joback Method
tf	232.64	K	Joback Method
vc	0.512	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	294.46	J/mol×K	487.46	Joback Method
cpg	311.28	J/mol×K	522.84	Joback Method
cpg	327.16	J/mol×K	558.23	Joback Method
cpg	342.12	J/mol×K	593.61	Joback Method
cpg	356.20	J/mol×K	629.00	Joback Method
cpg	369.41	J/mol×K	664.38	Joback Method
cpg	381.80	J/mol×K	699.76	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=R410983&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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