2-PENTYL-2-CYCLOPENTEN-1-ONE

Other names:	2-Pentyl-2-cyclopenten-1-one
	2-Amyl 2-cyclopenten-1-one
	2-pentylcyclopent-2-en-1-one
Inchi:	InChI=1S/C10H16O/c1-2-3-4-6-9-7-5-8-10(9)11/h7H,2-6,8H2,1H3
InchiKey:	ILHZVKAXFCDFMT-UHFFFAOYSA-N
Formula:	C10H16O
SMILES:	CCCCCC1=CCCC1=O
Mol. weight [g/mol]:	152.24

Physical Properties

Property code	Value	Unit	Source
hfus	14.86	kJ/mol	Joback Method
ie	9.18	eV	Cheméo Relay (1.0)
logp	2.856		Crippen Method
mcvol	138.170	ml/mol	McGowan Method
tb	502.30	K	Cheméo Relay (1.0)
tf	230.40	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	319.94	J/mol×K	520.11	Joback Method
cpg	335.86	J/mol×K	554.97	Joback Method
cpg	351.03	J/mol×K	589.83	Joback Method
cpg	365.46	J/mol×K	624.69	Joback Method
cpg	379.16	J/mol×K	659.55	Joback Method
cpg	392.14	J/mol×K	694.42	Joback Method
cpg	404.40	J/mol×K	729.28	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
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):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C25564221&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point