

Cyclopentanecarboxylic acid, phenyl ester

Inchi:	InChI=1S/C12H14O2/c13-12(10-6-4-5-7-10)14-11-8-2-1-3-9-11/h1-3,8-10H,4-7H2
InchiKey:	NHASTOMELKHZLY-UHFFFAOYSA-N
Formula:	C12H14O2
SMILES:	O=C(Oc1ccccc1)C1CCCC1
Mol. weight [g/mol]:	190.24
CAS:	54758-32-6

Physical Properties

Property code	Value	Unit	Source
gf	-34.80	kJ/mol	Joback Method
hf	-238.80	kJ/mol	Joback Method
hfus	17.60	kJ/mol	Joback Method
hvap	54.00	kJ/mol	Joback Method
log10ws	-3.11		Crippen Method
logp	2.782		Crippen Method
mcvol	152.760	ml/mol	McGowan Method
pc	3042.32	kPa	Joback Method
tb	592.21	K	Joback Method
tc	829.10	K	Joback Method
tf	334.48	K	Joback Method
vc	0.565	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	381.92	J/mol×K	592.21	Joback Method
cpg	458.46	J/mol×K	789.62	Joback Method
cpg	445.49	J/mol×K	750.14	Joback Method
cpg	431.40	J/mol×K	710.66	Joback Method
cpg	416.14	J/mol×K	671.17	Joback Method
cpg	399.66	J/mol×K	631.69	Joback Method
cpg	470.36	J/mol×K	829.10	Joback Method
dvisc	0.0002564	Pa×s	592.21	Joback Method
dvisc	0.0003232	Pa×s	549.26	Joback Method

dvisc	0.0004237	Pa×s	506.30	Joback Method
dvisc	0.0005841	Pa×s	463.35	Joback Method
dvisc	0.0008598	Pa×s	420.39	Joback Method
dvisc	0.0013819	Pa×s	377.44	Joback Method
dvisc	0.0025090	Pa×s	334.48	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C54758326&Units=SI

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

Latest version available from:

<https://www.chemeo.com/cid/94-063-8/Cyclopentanecarboxylic-acid-phenyl-ester.pdf>

Generated by Cheméo on 2025-12-19 23:40:03.858771924 +0000 UTC m=+5935801.388812578.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.