

(E)-4-Phenylbut-3-en-2-yl acetate

Inchi:	InChI=1S/C12H14O2/c1-10(14-11(2)13)8-9-12-6-4-3-5-7-12/h3-10H,1-2H3/b9-8+
InchiKey:	DSWDNUYFUXOVBI-CMDGGGOBGSA-N
Formula:	C12H14O2
SMILES:	CC(=O)OC(C)C=Cc1ccccc1
Mol. weight [g/mol]:	190.24

Physical Properties

Property code	Value	Unit	Source
gf	6.43	kJ/mol	Joback Method
hf	-187.34	kJ/mol	Joback Method
hfus	20.34	kJ/mol	Joback Method
hvap	53.31	kJ/mol	Joback Method
log10ws	-2.94		Crippen Method
logp	2.651		Crippen Method
mcvol	159.320	ml/mol	McGowan Method
pc	2676.31	kPa	Joback Method
rinpol	1460.00		NIST Webbook
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tb	580.65	K	Joback Method
tc	800.23	K	Joback Method
tf	303.50	K	Joback Method
vc	0.598	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	374.76	J/mol×K	580.65	Joback Method
cpg	389.79	J/mol×K	617.25	Joback Method
cpg	403.87	J/mol×K	653.84	Joback Method
cpg	417.03	J/mol×K	690.44	Joback Method
cpg	429.31	J/mol×K	727.04	Joback Method
cpg	440.76	J/mol×K	763.63	Joback Method
cpg	451.41	J/mol×K	800.23	Joback Method
dvisc	0.0027204	Pa×s	303.50	Joback Method

dvisc	0.0012128	Pa×s	349.69	Joback Method
dvisc	0.0006529	Pa×s	395.88	Joback Method
dvisc	0.0004000	Pa×s	442.07	Joback Method
dvisc	0.0002689	Pa×s	488.27	Joback Method
dvisc	0.0001936	Pa×s	534.46	Joback Method
dvisc	0.0001469	Pa×s	580.65	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R341307&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
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
mccvol:	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

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