

# Pent-4-enyl (E)-2-methylbut-2-enoate

<b>Inchi:</b>	InChI=1S/C10H16O2/c1-4-6-7-8-12-10(11)9(3)5-2/h4-5H,1,6-8H2,2-3H3/b9-5+
<b>InchiKey:</b>	BECSTUASVFEUNB-WEVVVXLNSA-N
<b>Formula:</b>	C10H16O2
<b>SMILES:</b>	C=CCCCOC(=O)C(C)=CC
<b>Mol. weight [g/mol]:</b>	168.23

## Physical Properties

Property code	Value	Unit	Source
gf	-41.09	kJ/mol	Joback Method
hf	-261.67	kJ/mol	Joback Method
hfus	22.05	kJ/mol	Joback Method
hvap	46.38	kJ/mol	Joback Method
log10ws	-2.58		Crippen Method
logp	2.462		Crippen Method
mvol	150.600	ml/mol	McGowan Method
pc	2419.50	kPa	Joback Method
rinpol	1220.00		NIST Webbook
rinpol	1220.00		NIST Webbook
tb	505.21	K	Joback Method
tc	691.72	K	Joback Method
tf	253.82	K	Joback Method
vc	0.582	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	332.32	J/mol×K	505.21	Joback Method
cpg	345.76	J/mol×K	536.29	Joback Method
cpg	358.58	J/mol×K	567.38	Joback Method
cpg	370.79	J/mol×K	598.46	Joback Method
cpg	382.42	J/mol×K	629.55	Joback Method
cpg	393.49	J/mol×K	660.63	Joback Method
cpg	404.02	J/mol×K	691.72	Joback Method

# Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U373739&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373739&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>h vap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r in pol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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