

# (Z)-2-Pentene, 3,4,4-trimethyl

<b>Inchi:</b>	InChI=1S/C10H20/c1-6-8-10(4,5)9(3)7-2/h7H,6,8H2,1-5H3/b9-7-
<b>InchiKey:</b>	QNCYASFVLPOLRR-CLFYBASSA-N
<b>Formula:</b>	C10H20
<b>SMILES:</b>	CC=C(C)C(C)(C)CCC
<b>Mol. weight [g/mol]:</b>	140.27

## Physical Properties

Property code	Value	Unit	Source
gf	107.83	kJ/mol	Joback Method
hf	-151.05	kJ/mol	Joback Method
hfus	13.13	kJ/mol	Joback Method
hvap	36.60	kJ/mol	Joback Method
log10ws	-3.62		Crippen Method
logp	3.779		Crippen Method
mvol	147.460	ml/mol	McGowan Method
pc	2263.26	kPa	Joback Method
rinpol	766.00		NIST Webbook
rinpol	766.00		NIST Webbook
tb	429.01	K	Joback Method
tc	613.55	K	Joback Method
tf	185.84	K	Joback Method
vc	0.566	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	302.06	J/mol×K	429.01	Joback Method
cpg	318.78	J/mol×K	459.77	Joback Method
cpg	334.63	J/mol×K	490.52	Joback Method
cpg	349.64	J/mol×K	521.28	Joback Method
cpg	363.86	J/mol×K	552.04	Joback Method
cpg	377.32	J/mol×K	582.79	Joback Method
cpg	390.07	J/mol×K	613.55	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<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=R568646&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R568646&amp;Units=SI</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>hvap:</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>rinpola:</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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