

# 2,4-Thiazolidinedione, 5-[(4-methoxyphenyl)methylene]-

**Other names:** Thiazolidine-2,4-dione, 5-(4-methoxyphenyl)methylene-  
5-(4-Methoxybenzylidene)-1,3-thiazolidine-2,4-dione  
2,4-Thiazolidinedione, 5-p-methoxybenzylidene-  
NSC 31205

**Inchi:** InChI=1S/C11H9NO3S/c1-15-8-4-2-7(3-5-8)6-9-10(13)12-11(14)16-9/h2-6H,1H3,(H,12,1

**InchiKey:** VRUKGUBMRBLJJW-TWGQIWQCSA-N

**Formula:** C11H9NO3S

**SMILES:** COc1ccc(C=C2SC(=O)NC2=O)cc1

**Mol. weight [g/mol]:** 235.26

**CAS:** 6320-51-0

## Physical Properties

Property code	Value	Unit	Source
gf	11.63	kJ/mol	Joback Method
hf	-213.01	kJ/mol	Joback Method
hfus	24.54	kJ/mol	Joback Method
hvap	67.84	kJ/mol	Joback Method
log10ws	-3.24		Crippen Method
logp	2.019		Crippen Method
mcvol	162.270	ml/mol	McGowan Method
pc	3699.95	kPa	Joback Method
tb	763.77	K	Joback Method
tc	1043.47	K	Joback Method
tf	625.32	K	Joback Method
vc	0.584	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	427.10	J/molxK	763.77	Joback Method
cpg	441.06	J/molxK	810.39	Joback Method
cpg	453.57	J/molxK	857.00	Joback Method
cpg	464.57	J/molxK	903.62	Joback Method
cpg	474.00	J/molxK	950.24	Joback Method

cpg	481.77	J/mol×K	996.86	Joback Method
cpg	487.82	J/mol×K	1043.47	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C6320510&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6320510&amp;Units=SI</a>
<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>

## 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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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