

# Flavone

<b>Other names:</b>	2-Phenyl-4-chromone 2-Phenyl-4H-1-benzopyran-4-one 2-Phenyl-4H-1-benzopyran-4-one (flavone) 2-Phenyl-4H-benzopyran-4-one 2-Phenyl-«gamma»-benzopyrone 2-Phenyl-Â«gammaÂ»-benzopyrone 2-Phenylbenzopyran-4-one 2-Phenylchromone 4H-1-Benzopyran-4-one, 2-phenyl- Asmacoril Chromocor Cromaril NSC 19028 Phenylchromone
<b>Inchi:</b>	InChI=1S/C15H10O2/c16-13-10-15(11-6-2-1-3-7-11)17-14-9-5-4-8-12(13)14/h1-10H
<b>InchiKey:</b>	VHBFFQKBGNRLFZ-UHFFFAOYSA-N
<b>Formula:</b>	C15H10O2
<b>SMILES:</b>	O=c1cc(-c2ccccc2)oc2ccccc12
<b>Mol. weight [g/mol]:</b>	222.24
<b>CAS:</b>	525-82-6

## Physical Properties

Property code	Value	Unit	Source
hfus	20.32	kJ/mol	Energetics of flavone and flavanone
hsub	108.20 ± 1.70	kJ/mol	NIST Webbook
log10ws	-9.04		Crippen Method
logp	3.460		Crippen Method
mcvol	166.970	ml/mol	McGowan Method
rinpol	2148.00		NIST Webbook
rinpol	2160.00		NIST Webbook
rinpol	2150.00		NIST Webbook

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	20.32	kJ/mol	369.90	NIST Webbook

## Sources

McGowan Method:	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C525826&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C525826&amp;Units=SI</a>
Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
Crippen Method:	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
Solubility of flavone, 6-methoxyflavone and anthracene in supercritical CO <sub>2</sub>	<a href="https://www.doi.org/10.1016/j.fluid.2016.05.009">https://www.doi.org/10.1016/j.fluid.2016.05.009</a>
Measurement and correlation of vapor-liquid distribution coefficients of flavone in supercritical CO <sub>2</sub> -ethanol-water systems	<a href="https://www.doi.org/10.1016/j.fluid.2019.02.015">https://www.doi.org/10.1016/j.fluid.2019.02.015</a>
Energy based similarity parameter	<a href="https://www.doi.org/10.1016/j.jct.2009.06.022">https://www.doi.org/10.1016/j.jct.2009.06.022</a>

## Legend

hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hsub:	Enthalpy of sublimation at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices

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