

# BUTADIENE-1.2

## CAS NO.

590-19-2

## APPLICATIONS & PROPERTIES

Butadiene-1.2 is a high-purity allenolefin.

## TRANSPORT & LOGISTICS

The product is available in tank- and special containers.

## APPLICATION FIELDS

1,2-butadiene can be used as process additive (polymerization regulator) for manufacturing of SBRs, moreover as building block in special syntheses.

## SUPPLY DATA

Property	Value	Unit	Method
Butadiene-1.2	min. 97.0	% (m/m)	B2643-AA 04-013 *
cis-Butene-2	max. 2.5	% (m/m)	B2643-AA 04-013 *
Butadiene-1.3	< 0.05	% (m/m)	B2643-AA 04-013 *
C <sub>5</sub> -Hydrocarbons	max 0.3	% (m/m)	B2643-AA 04-013 *
Alkynes (total)	max. 300	mg/kg	B2643-AA 04-013 *
Propadiene	max. 100	mg/kg	B2643-AA 04-013 *
Residue after evaporation	max. 500	mg/kg	B2643-AA 04-043 *
p-tert.-Butylcatechole	100 - 150	mg/kg	B2643-AA 04-042 *

\* in-house method

## PHYSICAL DATA (LITERATURE DATA)

Property	Value(ca.)	Unit
Mol weight (C <sub>4</sub> H <sub>6</sub> )	54.09	g/mol
Density referred to air under normal conditions	1.95	
Boiling point at 1013 hPa	10.9	°C
Critical temperature	178.9	°C
Critical Pressure (at 20°C)	43.6	bar
Specific heat (gaseous at 25 °C)	1.471	kJ/kg K
Specific heat (liquid at boiling point)	2.247	kJ/kg K

## DENSITY (LIQUEFIED GAS)

°C	- 10	0	10	20	30	40
g/cm <sup>3</sup>	0.687	0.675	0.664	0.652	0.639	0.626

## VAPOUR Pressure (at 20°C)

°C	-10	0	10	20	30	40	50	60	80
mbar (hPa)	432	662	981	1411	1976	2701	3613	4739	7743

## HEAT OF EVAPORATION

°C	0	20	40	60	80
mbar (hPa)	451.45	430.79	408.49	384.15	357.19

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