

I U P A C Gold Book Resources

Alphabetical Index

A	B	C	D	E	F
G	H	I	J	K	L
M	N	O	P	Q	R
S	T	U	V	W	XYZ

Additional Indexes

- Physical Constants
- Units of Measure
- Physical Quantities
- SI Prefixes
- Ring Index
- General Formulae
- Exact Formulae
- Source Documents
- Terms by IUPAC Div.

Version 3.0.1 (6465 Terms)
Download Vocabulary
PDF | JSON | XML
ISBN: 0-9678558-9-8
DOI: 10.1351/goldbook

retardation factor, R_F

in planar chromatography

<https://doi.org/10.1351/goldbook.R05353>

Ratio of the distance travelled by the centre of the spot to the distance simultaneously travelled by the mobile phase:

$$R_F = \frac{b}{a}$$

By definition the R_F values are always less than unity. They are usually given to two decimal places. In order to simplify this presentation the hR_F values may be used: they correspond to the R_F values multiplied by 100. Ideally, R_F values are identical to the R values used in column chromatography.

Source:
PAC, 1993, 65, 819. (*Nomenclature for chromatography (IUPAC Recommendations 1993)*) on page 845 [Terms] [Paper]

Cite as: IUPAC. Compendium of Chemical Terminology, 2nd ed. (the "Gold Book"). Compiled by A. D. McNaught and A. Wilkinson. Blackwell Scientific Publications, Oxford (1997). Online version (2019-) created by S. J. Chalk. ISBN 0-9678550-9-8. <https://doi.org/10.1351/goldbook>.

Last revised: February 24, 2014